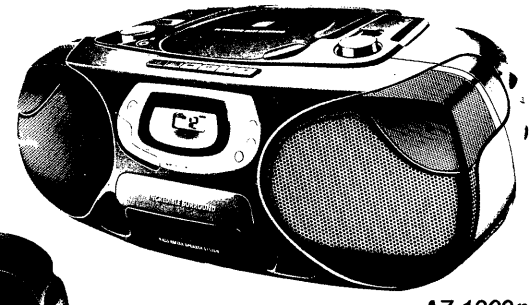
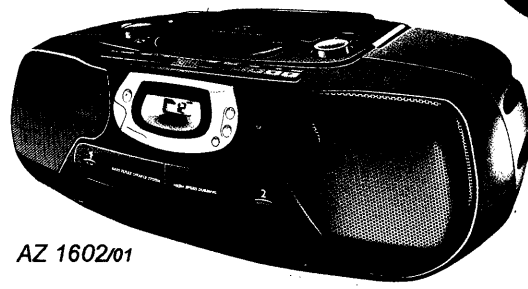
Service
Service
Service

Volta ao Menu



AZ 1202/01



AZ 1602/01

# Service Manual

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10/97

PHILIPS

# ESPECIFICAÇÕES

## GERAIS

| | |
|---|---|
| Tensão de Rede | : 110 / 220V |
| Frequência de Rede | : 60Hz |
| Consumo | : 15W |
| Dimensões ( L x A x P ) **AZ1602** | : 540 x 175 x 250 mm |
| Dimensões ( L x A x P ) **AZ1202** | : 470 x 175 x 250 mm |
| Peso **( AZ1602 / AZ1202 )** | : 5 Kg / 4,5 Kg |

## AMPLIFICADOR

| | | |
|---|---|---|
| Potência de Saída | rede | : 2 x 2 W (4Ω) |
| | bateria | : 2 x 2 W |
| Resposta de Freqüência | | : 100Hz - 10KHz |

## TUNER

| | FM | AM |
|---|---|---|
| Range de Sintonia | : 87.5MHz - 108MHz | 522KHz - 1607KHz |
| Grid | : 100KHz | 10KHz |
| FI | : 10.7MHz ± 0,2 MHz | 468KHz ± 3KHz |
| Sensibilidade (S/N=26dB) | : > 22 dBf | < 4.000µV/m |
| Seletividade | : > 20 dB | > 16 dB |
| Rejeição de Fi | : > 50 dB | > 24 dB |
| Rejeição de Imagem | : > 20 dB | > 28 dB |

## COMPACT DISC

| | |
|---|---|
| Resposta de Frequência ( ± 3dB) | : 30Hz - 16khz |
| Relação S/N | : > 80dB |
| Distorção a 1KHz | : < 0.5% |
| Diferença entre Canais a 1KHz | : > 2 dB |
| Crosstalk a 1KHz | : > 50dB |

## TAPE DECK

| | |
|---|---|
| Wow & Flutter | : < 0,48 % |
| Frequência de BIAS AM/FM | : 73KHz ± 5KHz |
| Resposta de Frequência P/B | : 250Hz - 6K3Hz |
| **(AZ1602)** High speed dubbibg | : 125Hz - 8khz |
| Relação S/N | : > 40dB |
| Atuação de apagamento | : > 50dB a 1KHz |

# INSTRUÇÕES DE DESMONTAGEM DOS APARELHOS AZ1602 & AZ1202

**AZ1602 - Deck Duplo**
**AZ1202 - Deck Simples**

A Remover o Gabinete Frontal,
B Remover as Tampas Cassetes,
C Remover o conjunto Tape Deck,
D Remover a Base do CD,
E Remover o Conjunto do Painel de Audio,
F Remover o Conjunto do Painel de Sintonia,
G Remover a Alça

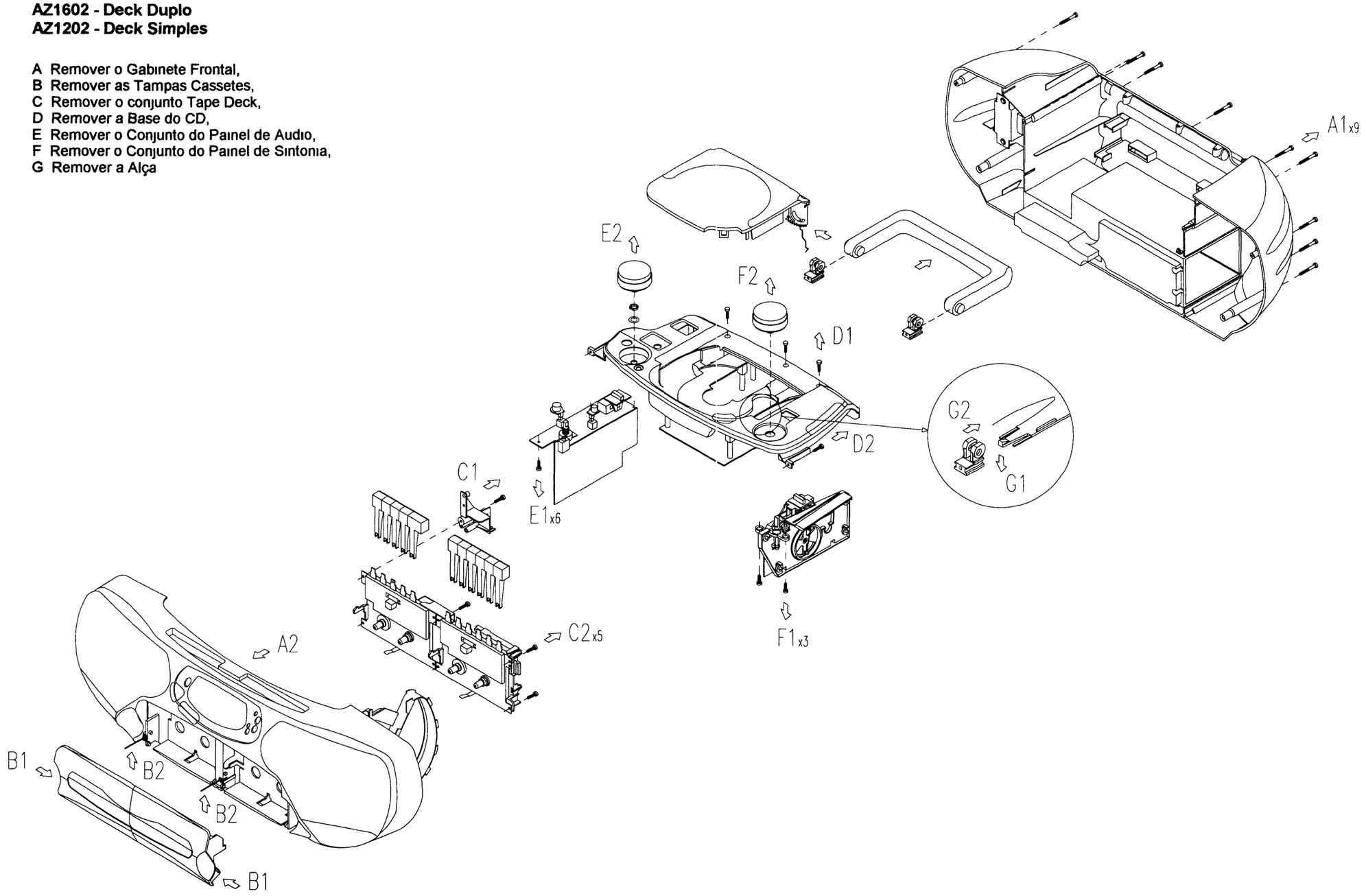
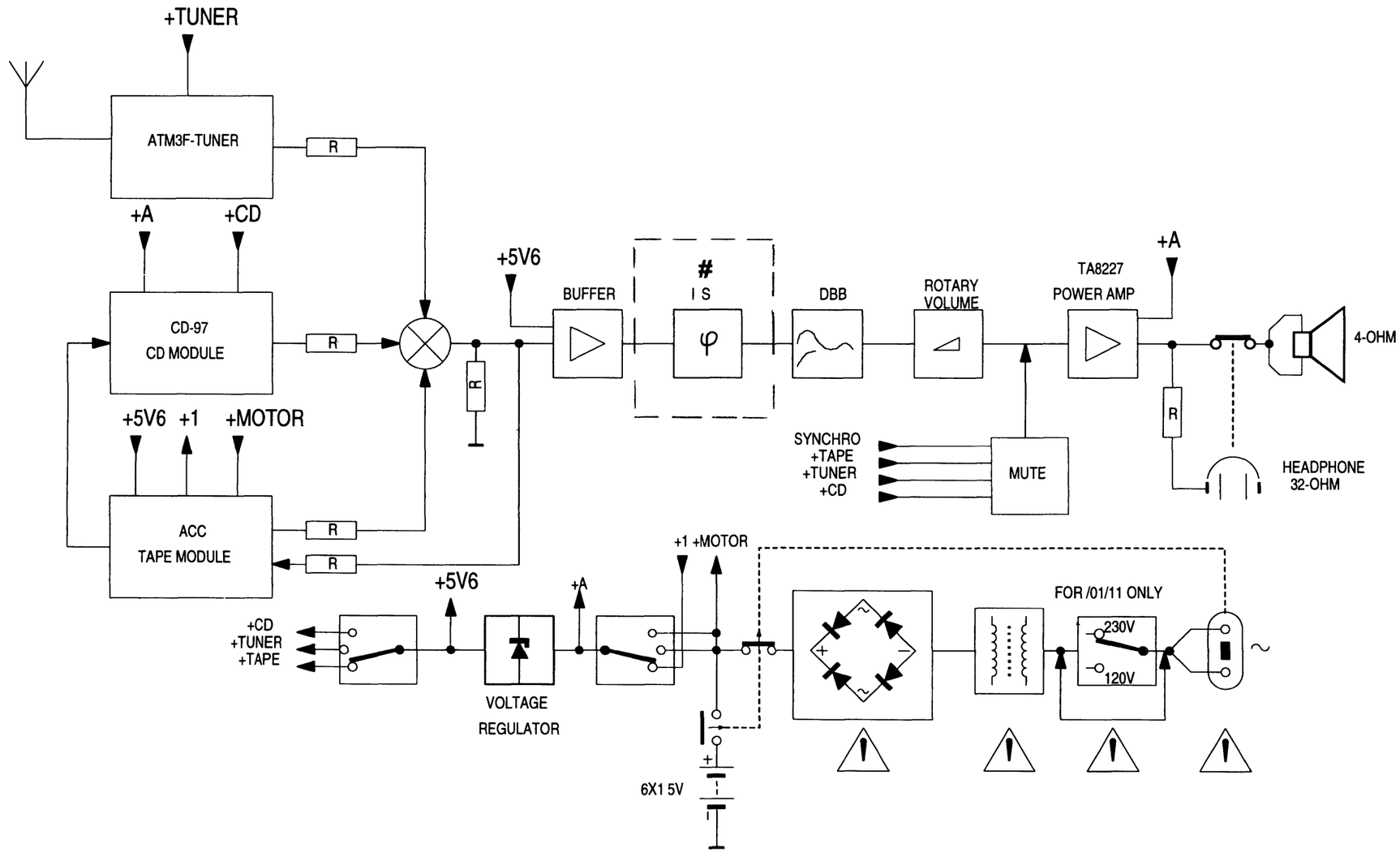
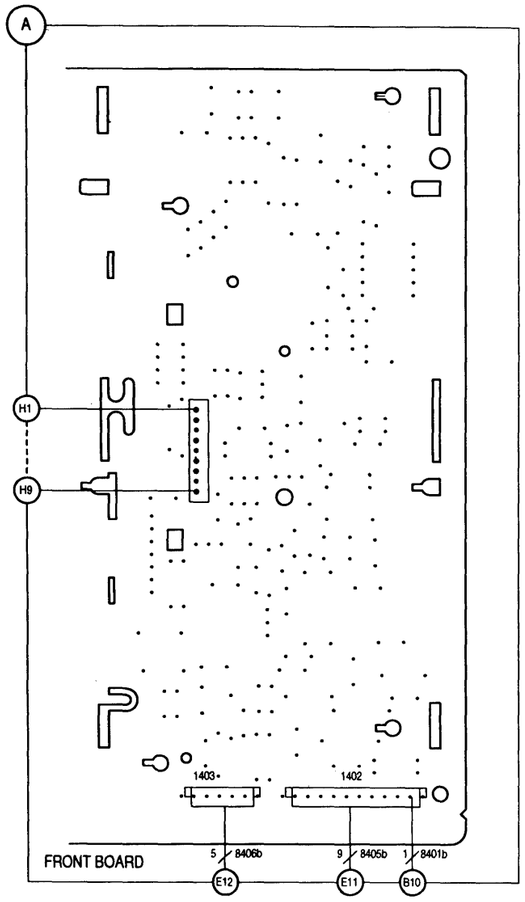
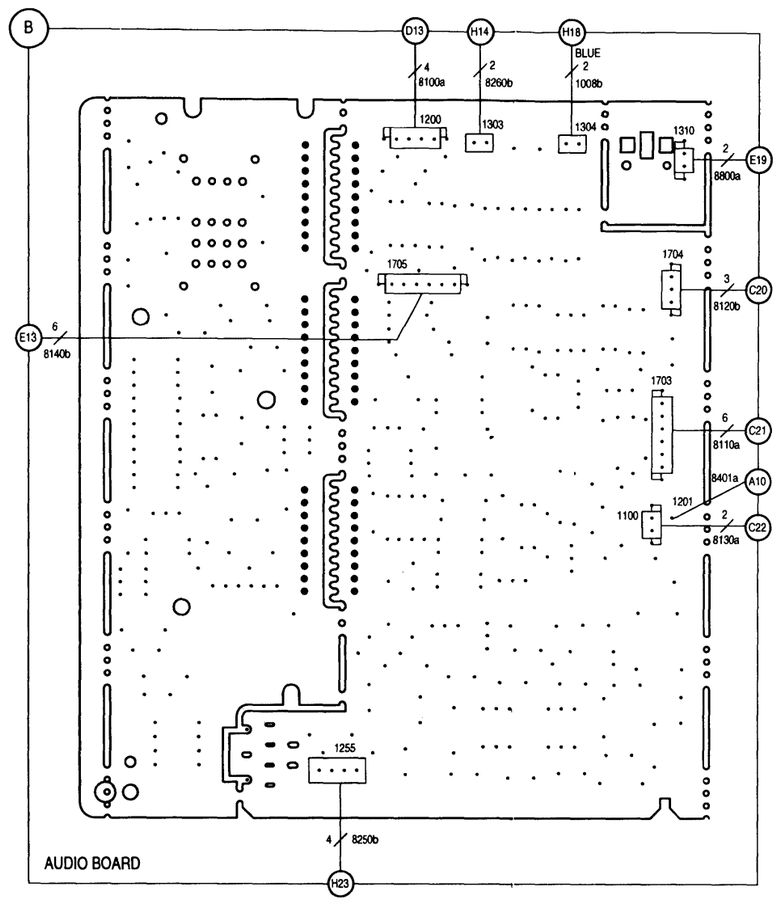


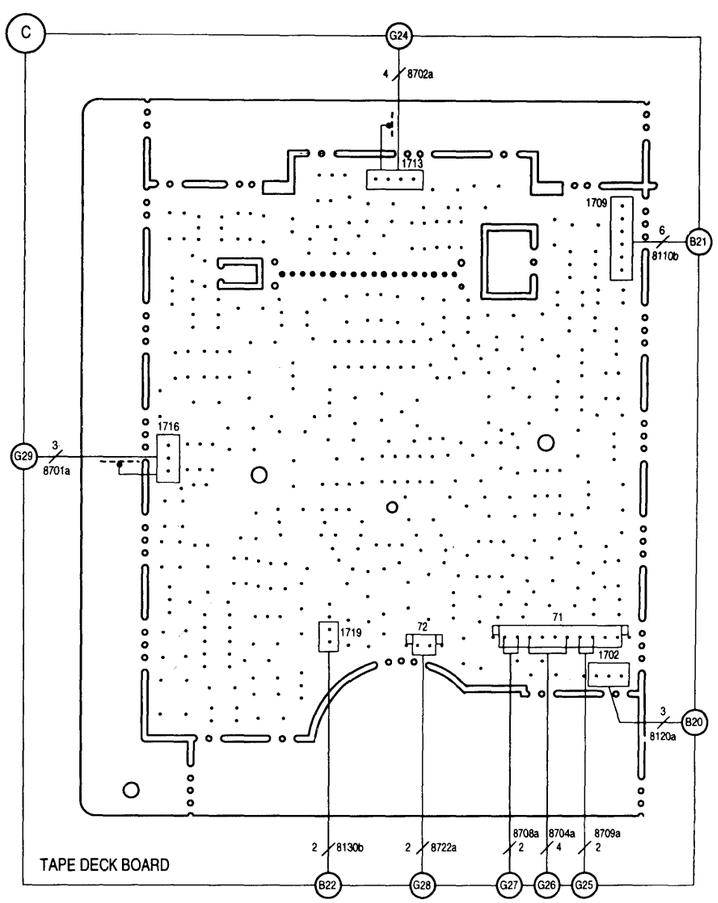
**DIAGRAMA DE BLOCOS**
**AZ1602 / AZ1202**
**( Para todas as versões )**
**# Somente para AZ 1202**

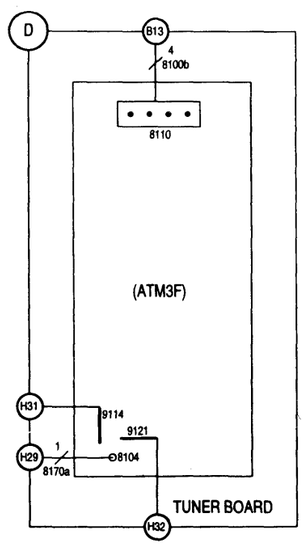


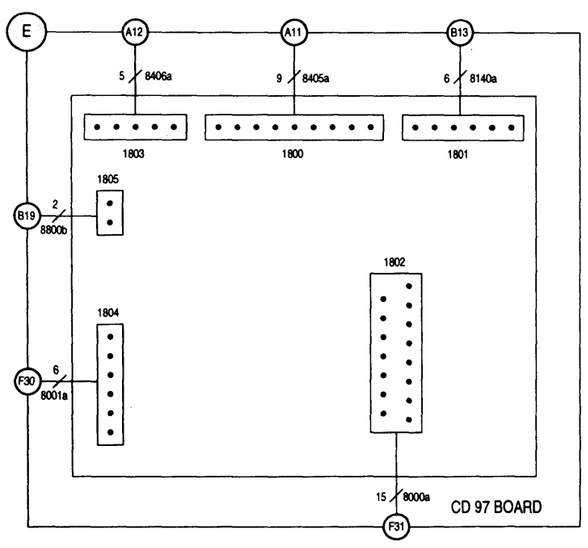
# DIAGRAMA DE FIAÇÃO - AZ1602

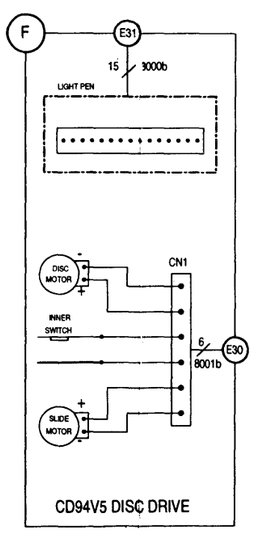


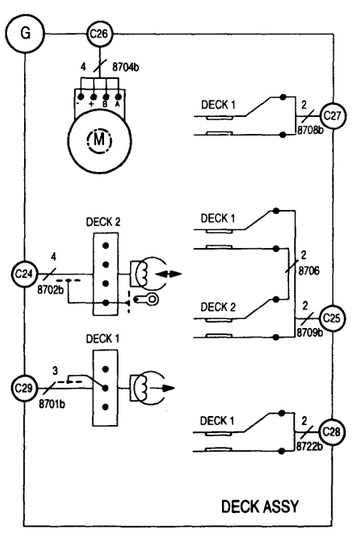



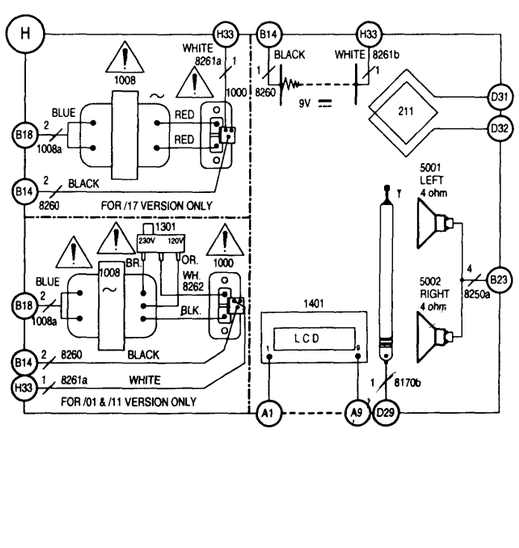



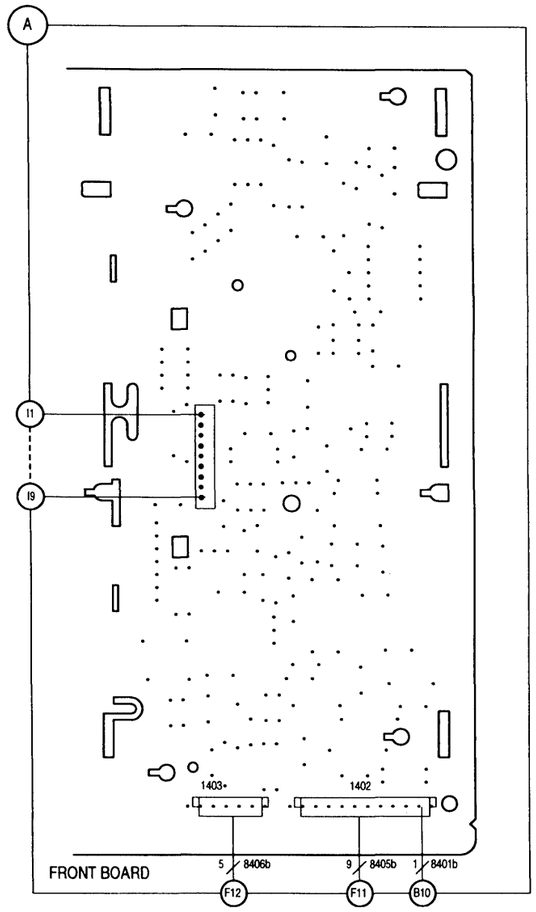



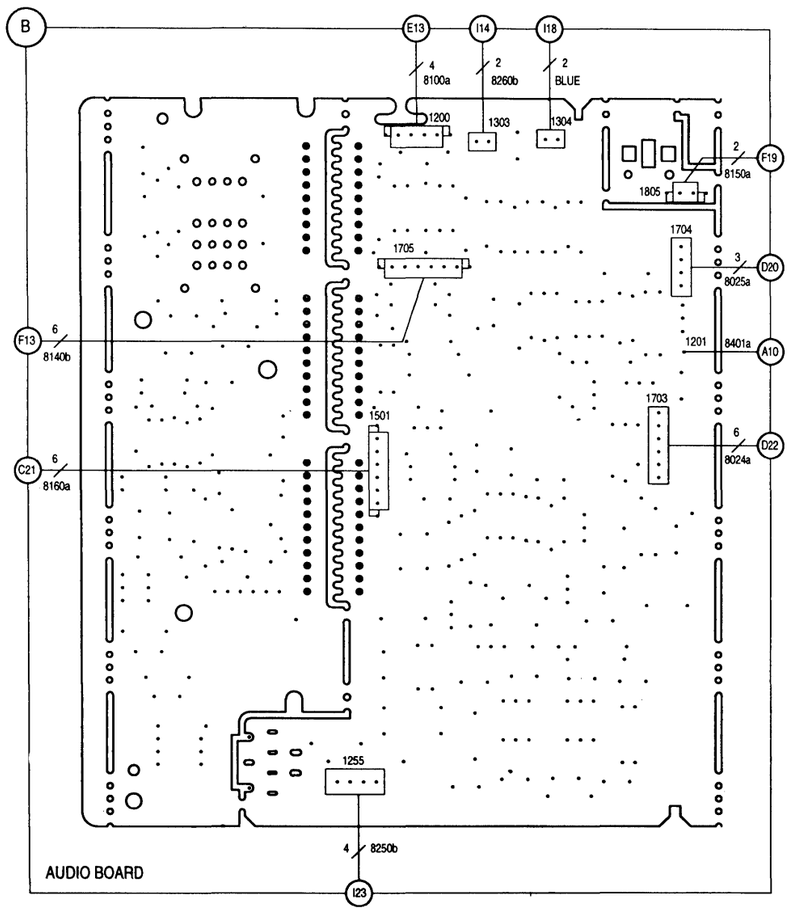



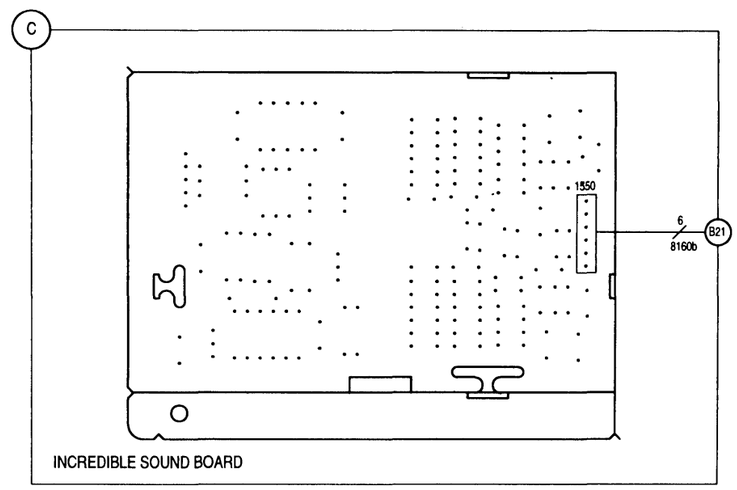



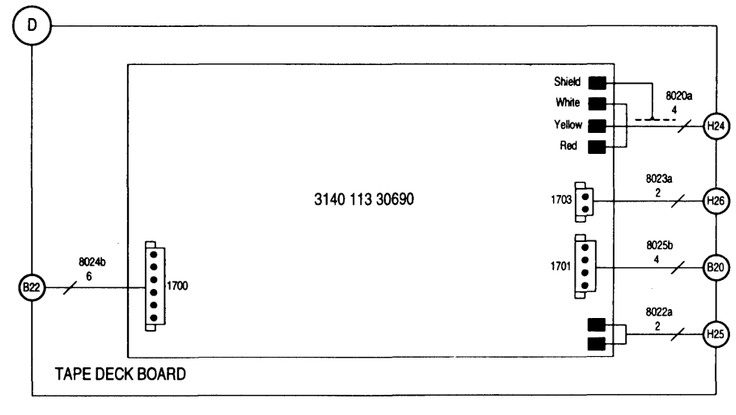



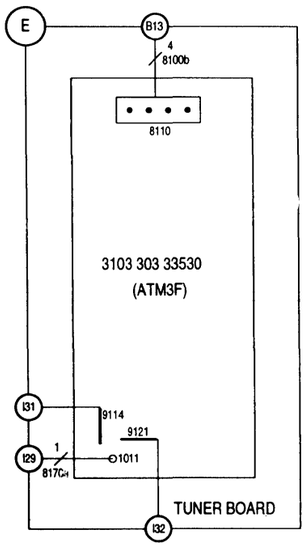
# DIAGRAMA DE FIAÇÃO - AZ1202

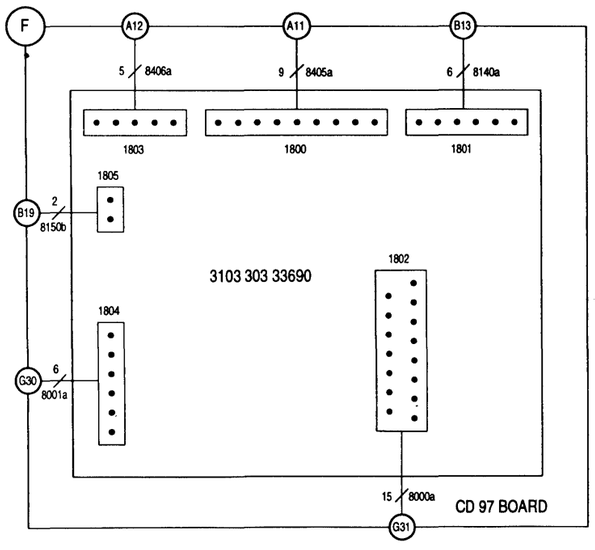


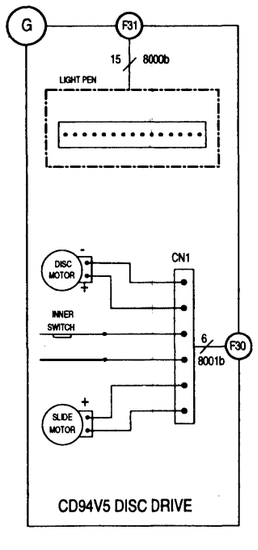



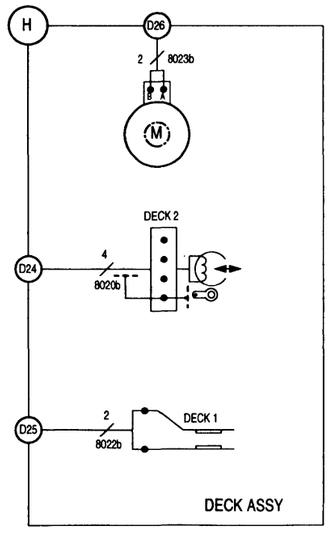



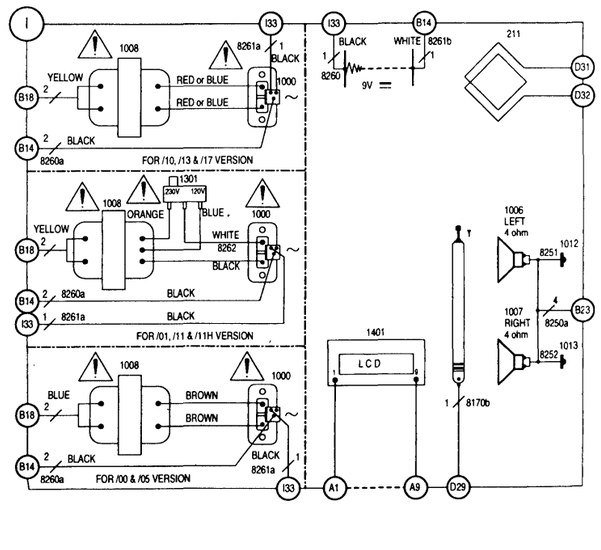



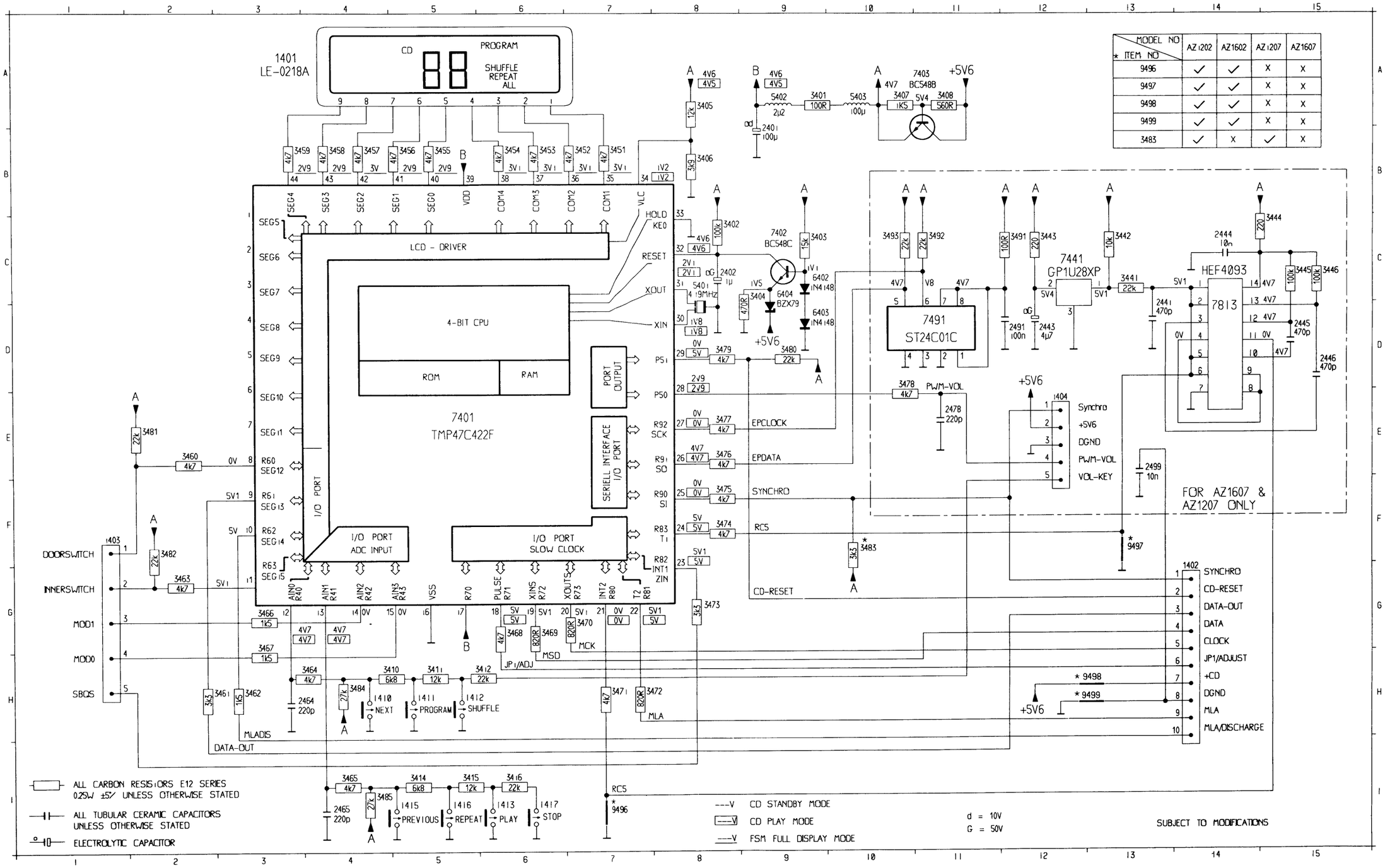



# Digrama Esquemático - FRONT BOARD - AZ1602 / AZ1202

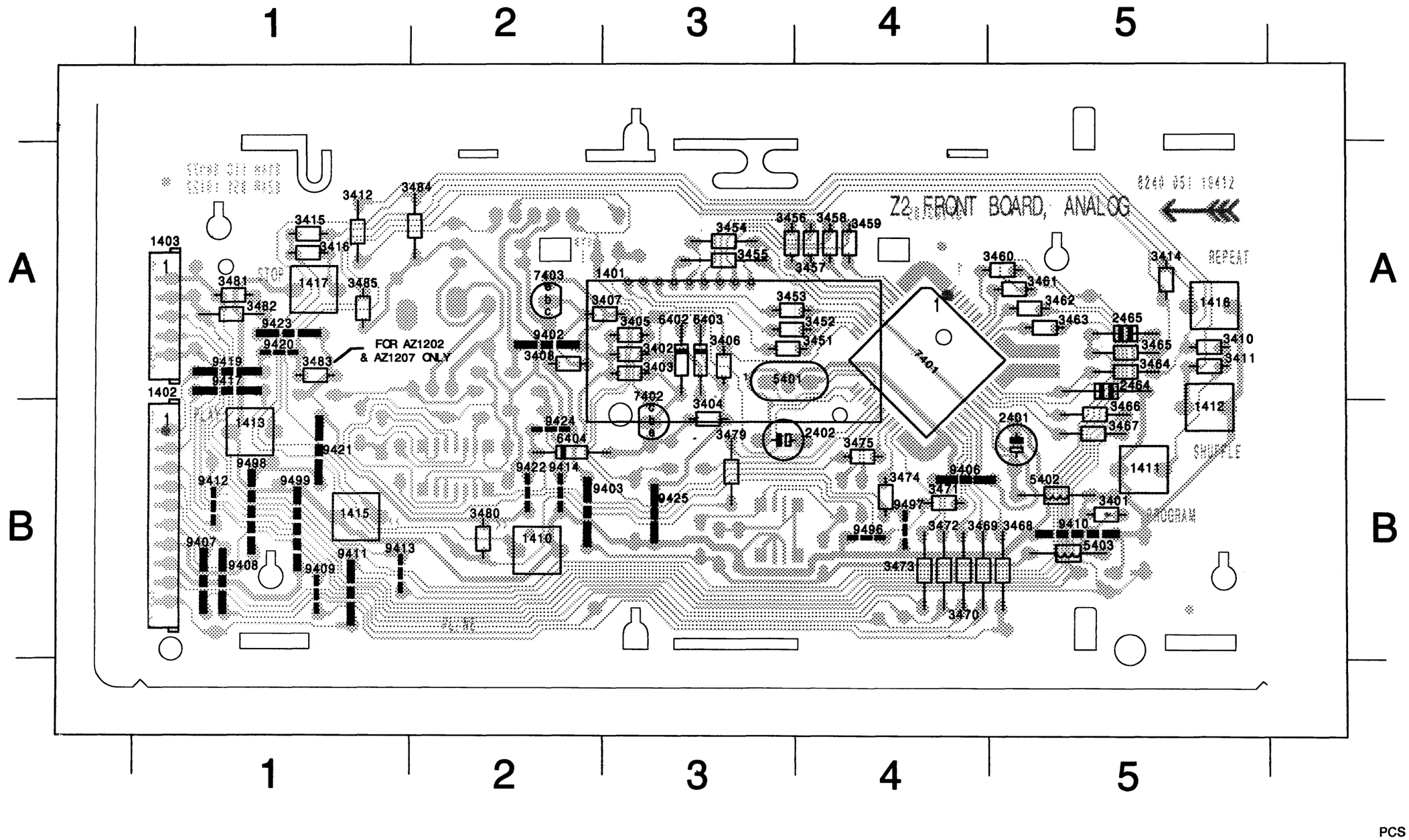
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1401 | A 3 | 1411 | H 5 | 1417 | I 6 | 2444 | C14 | 2478 | E11 | 3403 | C 9 | 3408 | A11 | 3415 | I 5 | 3444 | C15 | 3453 | B 6 | 3458 | B 4 | 3463 | G 2 | 3468 | G 6 | 3473 | G 8 | 3478 | D10 | 3483 | F10 | 3493 | C10 | 6403 | D 9 | 7441 | C12 | 9498 | H13 |
| 1402 | G14 | 1412 | H 5 | 2401 | B 9 | 2445 | D15 | 2491 | D12 | 3404 | C 9 | 3410 | H 4 | 3416 | I 6 | 3445 | C15 | 3454 | B 6 | 3459 | B 4 | 3464 | H 4 | 3469 | G 6 | 3474 | F 8 | 3479 | D 8 | 3484 | H 4 | 5401 | C 8 | 6404 | C 9 | 7491 | D11 | 9499 | H13 |
| 1403 | F 1 | 1413 | I 6 | 2402 | C 8 | 2446 | D15 | 2499 | E13 | 3405 | A 8 | 3411 | H 5 | 3441 | C13 | 3446 | C15 | 3455 | B 5 | 3460 | E 2 | 3465 | I 4 | 3470 | G 7 | 3475 | F 8 | 3480 | D 9 | 3485 | I 4 | 5402 | A 9 | 7401 | E 5 | 7813 | D14 | | |
| 1404 | E12 | 1415 | I 5 | 2441 | D13 | 2464 | H 4 | 3401 | A 9 | 3406 | B 8 | 3412 | H 6 | 3442 | C13 | 3451 | B 7 | 3456 | B 5 | 3461 | H 3 | 3466 | G 3 | 3471 | H 7 | 3476 | E 8 | 3481 | E 2 | 3491 | C12 | 5403 | A10 | 7402 | C 9 | 9496 | I 7 | | |
| 1410 | H 4 | 1416 | I 5 | 2443 | D12 | 2465 | I 4 | 3402 | C 8 | 3407 | A10 | 3414 | I 5 | 3443 | C12 | 3452 | B 7 | 3457 | B 4 | 3462 | H 3 | 3467 | G 3 | 3472 | H 8 | 3477 | E 8 | 3482 | F 2 | 3492 | C11 | 6402 | C 9 | 7403 | A10 | 9497 | F13 | | |




| MODEL NO / ★ ITEM NO | AZ1202 | AZ1602 | AZ1207 | AZ1607 |
|---|---|---|---|---|
| 9496 | ✓ | ✓ | X | X |
| 9497 | ✓ | ✓ | X | X |
| 9498 | ✓ | ✓ | X | X |
| 9499 | ✓ | ✓ | X | X |
| 3483 | ✓ | X | ✓ | X |

# LAYOUT - FRONT BOARD - AZ1602 / AZ1202

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1401 A 3 | 1415 B 1 | 3401 B 5 | 3408 A 2 | 3451 A 3 | 3458 A 4 | 3465 A 5 | 3472 B 4 | 3482 A 1 | 6402 A 3 | 9403 B 2 | 9412 B 1 | 9422 B 2 | 9499 B 1 |
| 1402 B 1 | 1416 A 5 | 3402 A 3 | 3410 A 5 | 3452 A 3 | 3459 A 4 | 3466 B 5 | 3473 B 4 | 3483 A 1 | 6403 A 3 | 9406 B 4 | 9413 B 1 | 9423 A 1 | |
| 1403 A 1 | 1417 A 1 | 3403 A 3 | 3411 A 5 | 3453 A 3 | 3460 A 5 | 3467 B 5 | 3474 B 4 | 3484 A 2 | 6404 B 2 | 9407 B 1 | 9414 B 2 | 9424 B 2 | |
| 1410 B 2 | 2401 B 5 | 3404 B 3 | 3412 A 1 | 3454 A 3 | 3461 A 5 | 3468 B 5 | 3475 B 4 | 3485 A 1 | 7401 A 4 | 9408 B 1 | 9417 A 1 | 9425 B 3 | |
| 1411 B 5 | 2402 B 3 | 3405 A 3 | 3414 A 5 | 3455 A 3 | 3462 A 5 | 3469 B 4 | 3479 B 3 | 5401 A 3 | 7402 B 3 | 9409 B 1 | 9419 A 1 | 9496 B 4 | |
| 1412 B 5 | 2464 A 5 | 3406 A 3 | 3415 A 1 | 3456 A 3 | 3463 A 5 | 3470 B 4 | 3480 B 2 | 5402 B 5 | 7403 A 2 | 9410 B 5 | 9420 A 1 | 9497 B 4 | |
| 1413 B 1 | 2465 A 5 | 3407 A 3 | 3416 A 1 | 3457 A 4 | 3464 A 5 | 3471 B 4 | 3481 A 1 | 5403 B 5 | 9402 A 2 | 9411 B 1 | 9421 B 1 | 9498 B 1 | |




PCS 87 264

# Digrama Esquemático - ANALOG TUNER (ATM3F) - AZ1602 / AZ1202

## ANALOG TUNER BOARD (ATM3F)

FM/MW versions

| ITEM_ \ VERSION | FM 87 5 108MHz | Japan 76 108 MHz |
|---|---|---|
| 2105 | 22p | 22p |
| 2106 | 20p | 40p |
| 2107 | | 470p |
| 2108 | 22p | 10p |
| 2109 | 4p7 | 2p2 |
| 5101 | 55nH | 60nH |
| 5104 | 40nH | 80nH |
| 9101 | JMP | |

u provisional only

W for Japanese version only

AM-IF1 5106 468kHz

AM-IF2 5108 468kHz

FM-IF1 5107a

FM-IF2 5107b

DISCRIMINATOR

7101 TEA5711T

FM Frontend, FM MIXER, FM IF 1, FM IF 2, IF AMP, FM DET, FM OSC, MUTE, AM/FM INDIC, AM IF, AM DET, AM MIXER, AM OSC, AM Frontend, AGC, STABILIZER, IF GND, PILOT DET, PHASE DET, SWITCH, AM/FM SWITCH, V/I CONV, SYNCH DET, SOFT MUTE, MATRIX, SDS, CONTROL, MONO/ST SWITCH, LED DRIVER, VCO, DIVIDER, MUTE, 19/19/38kHz

AM-RF

AM-FRAME AERIAL

FM-RF

FM-OSC

AM-OSCILLATOR

VARCO 2106

WAVE RANGE SWITCH 1101

Signal path

FM

AM

MPX (Audio Frequency)

AF left/right

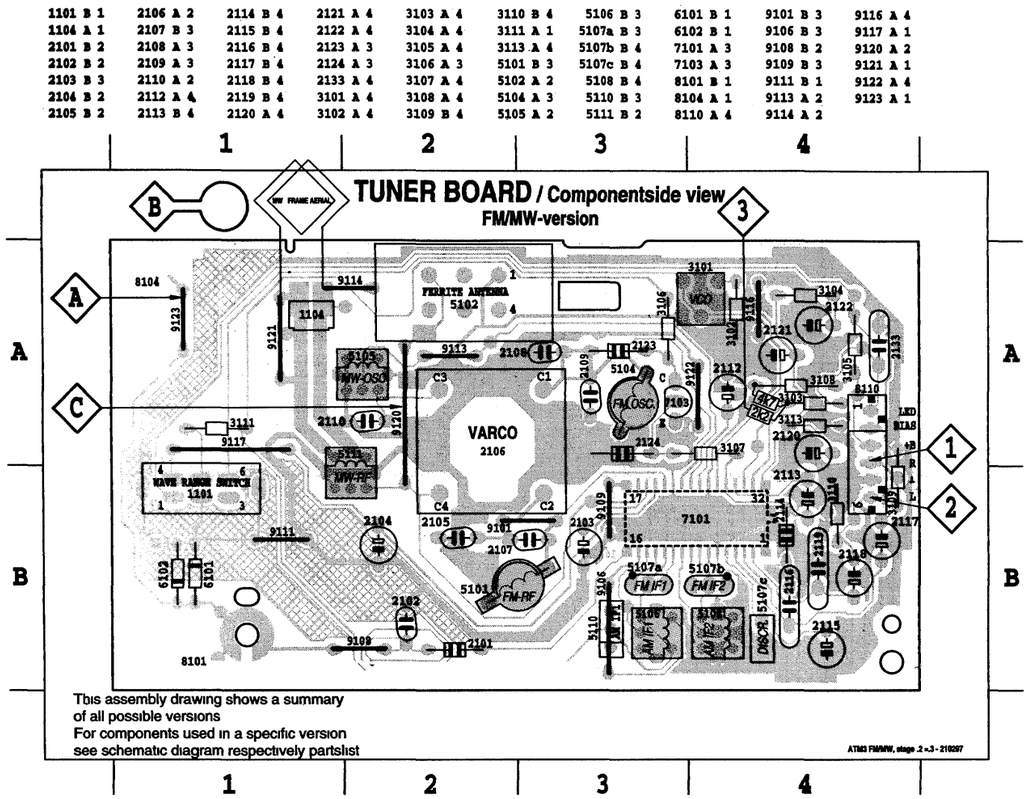
Vdc FM mode stereo

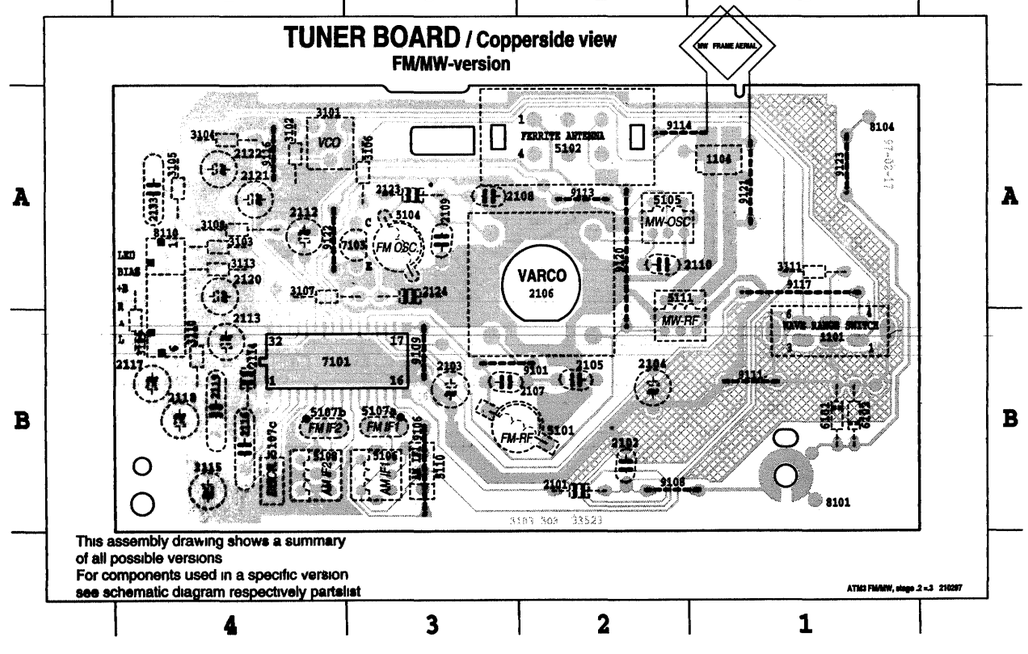
Vdc MW mode

Voltages measured while set is tuned to a strong transmitter

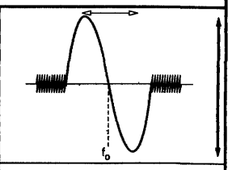
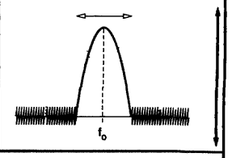
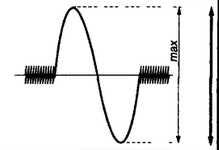
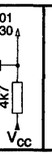
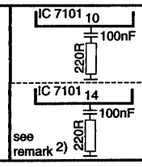
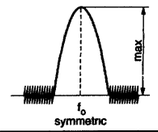
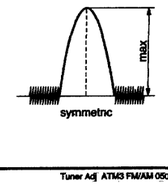
ATM3 frame 2 band 010796

1101 B12
1101 G 6
1104 G 2
2101 B 4
2102 B 4
2103 F 5
2104 G 6
2105 H 5
2106 I 6
2106 H11
2106 F 5
2106 H 5
2107 H 6
2108 I 6
2109 I 6
2110 I10
2112 B12
2113 F 9
2114 G 9
2115 B 9
2116 A11
2117 A11
2118 A11
2119 B11
2120 F10
2121 F10
2122 G10
2123 I 7
2124 I 8
2133 C13
3101 G 8
3102 H 8
3103 C13
3104 F10
3105 B13
3106 I 8
3107 I 8
3108 B12
3109 A11
3110 B11
3111 F 6
3113 F11
5101 H 6
5102 G 4
5104 I 7
5105 I 9
5106 A 5
5107a B 6
5107b B 8
5107c B 9
5108 A 7
5110 A 6
5111 F 3
6101 B 2
6102 B 2
7101 C11
7103 I 7
8101 B 2
8104 A 2
8110 A14
9101 H 6
9106 A 6
9117 G 6




## TUNER ADJUSTMENT TABLE ( ATM3 FM/AM - versions with AM-frame aerial )

| Waverange | Input Frequency | Input | Set tuned to | Adjust | Measure on | Scope / Counter |
|---|---|---|---|---|---|---|
| ***OSCILLATOR*** | | | | | | |
| **FM**<br>87,5 - 108 MHz | 87,35 MHz | A<br>Δf = ±500kHz<br>$V_{RF}$ = 100µV | lower band end | 5104 | 1 or 2 |  |
| | 108,25 MHz | | upper band end | 2106 C1 | | |
| **MW**<br>525 - 1607 kHz<br>(530 - 1710 kHz) 1) | 512 kHz<br>(520 kHz) | C<br>Δf = ±30kHz<br>$V_{RF}$ = 100µV | lower band end | 5105 | 1 or 2 |  |
| | 1635 kHz<br>(1730 kHz) | | upper band end | 2106 C3 | | |
| ***FM - RF*** | | | | | | |
| **FM**<br>87,5 - 108 MHz | 87,5 MHz | A<br>Δf = ±500kHz<br>$V_{RF}$ = 10µV | 87,5 MHz | 5101 | 1 or 2 |  |
| | 108 MHz | | 108 MHz | 2106 C2 | | |
| ***VCO*** | | | | | | |
| **FM** | 98 MHz | A<br>continuous wave<br>$V_{RF}$ = 1 mV | 98 MHz | 3101 | 3 |  |
| | | | | | | 152 ±1 kHz |
| ***AM - IF*** | | | | | | |
| **AM** | 468 kHz<br>connect pin 24 of IC 7101 (AM Osc) with short wire to ground | C<br>Δf = ±15kHz<br>$V_{RF}$ = 10mV |  <br>see remark 2) | 5106<br>5108 | 1 or 2 |  |
| ***AM -RF*** | | | | | | |
| **MW** | 560 kHz | B<br>Δf = ±30kHz<br>$V_{RF}$ as low as possible | 560 kHz | 5111 | 1 or 2 |  |
| | 1500 kHz | | 1500 kHz | 2106 C4 | | |

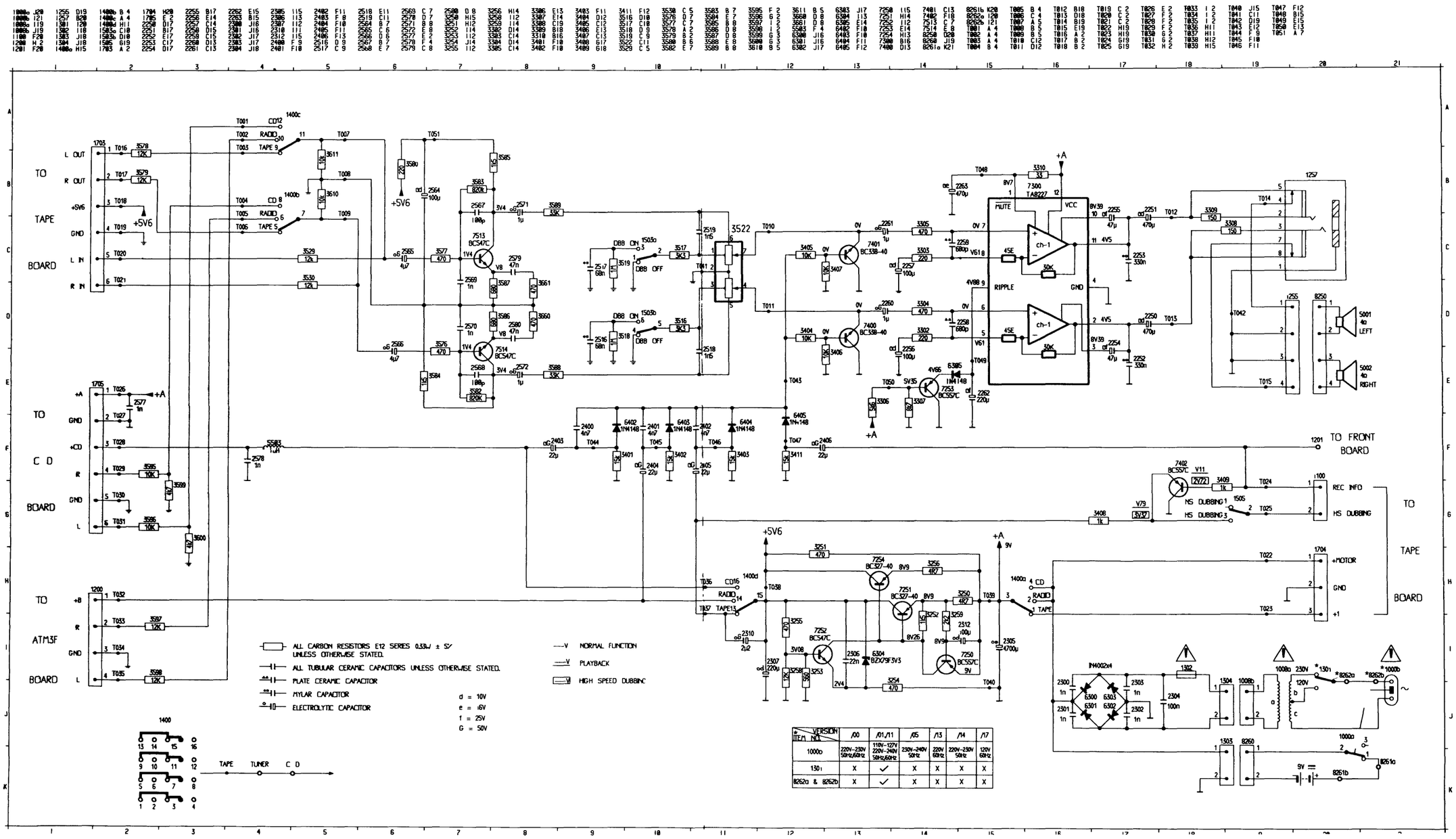
Tuner Adj ATM3 FM/AM 050796

repeat

1) for USA /17

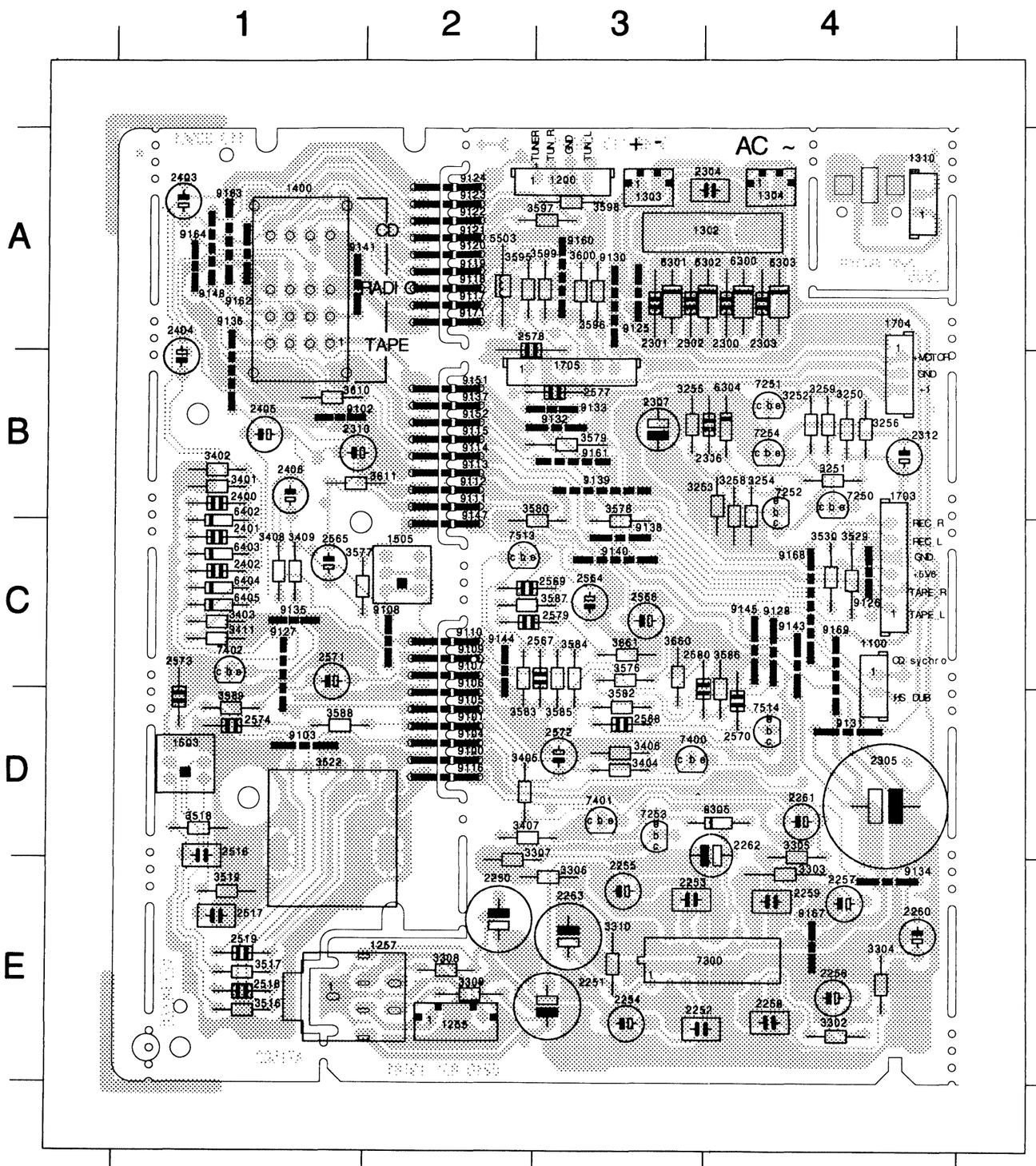
2) RC-network serves for damping the IF-filter while adjusting the other one

# Digrama Esquemático - AUDIO BOARD - AZ1602



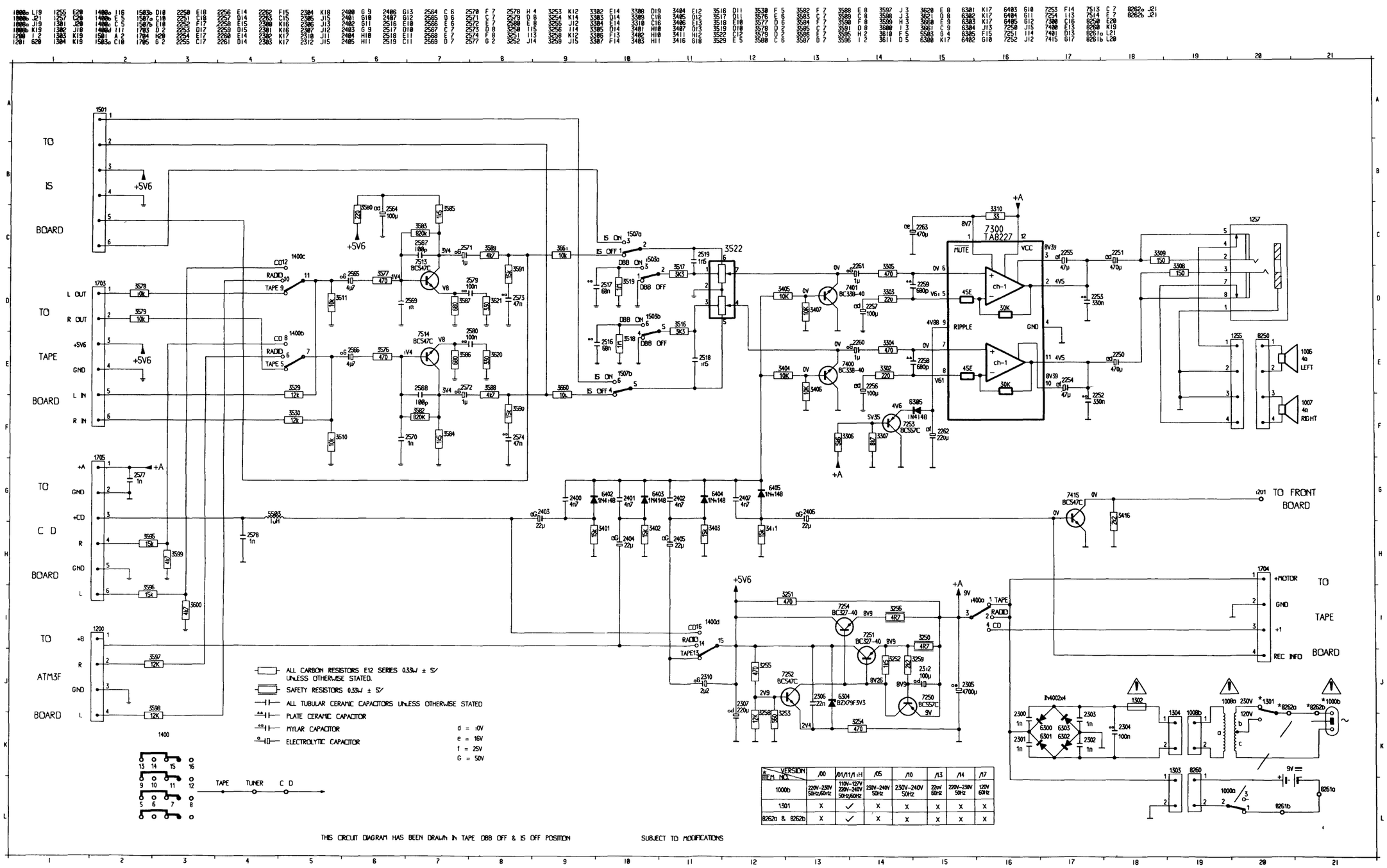

| VERSION / ITEM NO. | /00 | /01,/11 | /05 | /13 | /14 | /17 |
|---|---|---|---|---|---|---|
| 1000a | 220V~230V 50Hz,60Hz | 110V~127V 220V~240V 50Hz,60Hz | 230V~240V 50Hz | 220V 60Hz | 220V~230V 50Hz | 120V 60Hz |
| 1301 | X | ✓ | X | X | X | X |
| 8262a & 8262b | X | ✓ | X | X | X | X |

# LAYOUT - AUDIO BOARD - AZ1602



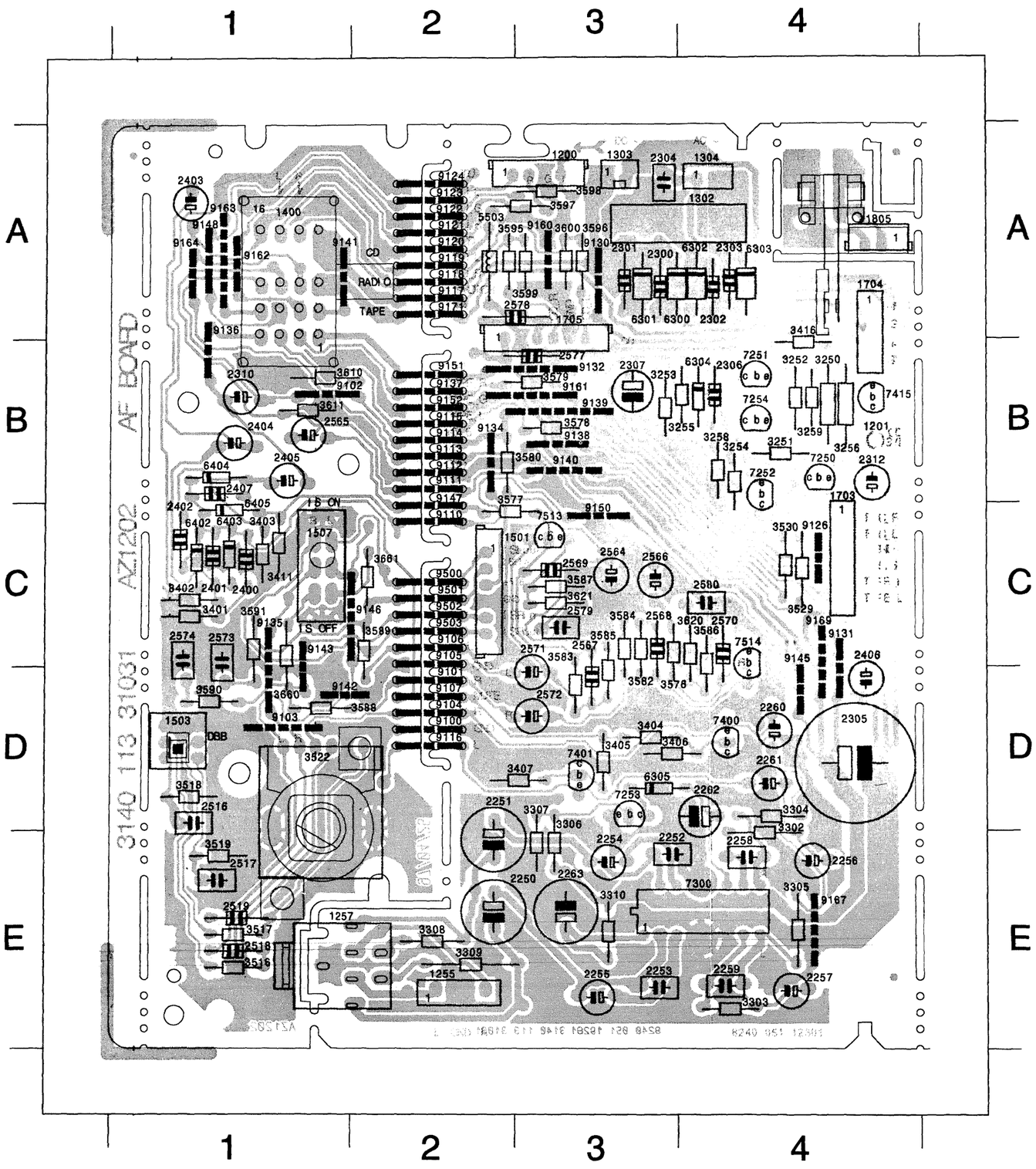

1100 C 4
1200 A 3
1255 E 2
1257 E 2
1302 A 4
1303 A 3
1304 A 4
1310 A 4
1400 A 1
1503 D 1
1505 C 2
1703 C 4
1704 B 4
1705 B 3
2250 E 2
2251 E 3
2252 E 3
2253 E 3
2254 E 3
2255 E 3
2256 E 4
2257 E 4
2258 E 4
2259 E 4
2260 E 4
2261 D 4
2262 D 4
2263 E 3
2300 A 4
2301 A 3
2302 A 3
2303 A 4
2304 A 4
2305 D 4
2306 B 4
2307 B 3
2310 B 1
2312 B 4
2400 B 1
2401 C 1
2402 C 1
2403 A 1
2404 B 1
2405 B 1
2406 B 1
2516 D 1
2517 E 1
2518 E 1
2519 E 1
2564 C 3
2565 C 1
2566 C 3
2567 C 3
2568 D 3
2569 C 2
2570 D 4
2571 C 1
2572 D 3
2573 D 1
2574 D 1
2577 B 3
2578 B 2
2579 C 2
2580 D 3
3250 B 4
3251 B 4
3252 B 4
3253 B 4
3254 B 4
3255 B 3
3256 B 4
3258 B 4
3259 B 4
3302 E 4
3303 E 4
3304 E 4
3305 D 4
3306 E 3
3307 E 2
3308 E 2
3309 E 2
3310 E 3
3401 B 1
3402 B 1
3403 C 1
3404 D 3
3405 D 2
3406 D 3
3407 D 2
3408 C 1
3409 C 1
3411 C 1
3516 E 1
3517 E 1
3518 D 1
3519 E 1
3522 D 1
3529 C 4
3530 C 4
3576 C 3
3577 C 1
3578 C 3
3579 B 3
3580 C 3
3582 D 3
3583 C 3
3584 C 3
3585 C 3
3586 D 4
3587 C 1
3588 D 1
3589 D 1
3595 A 2
3596 A 3
3597 A 3
3598 A 3
3599 A 3
3600 A 3
3610 B 1
3611 B 1
3660 C 3
3661 C 3
5503 A 2
6300 A 4
6301 A 3
6302 A 4
6303 A 4
6304 B 4
6305 D 4
6402 C 1
6403 C 1
6404 C 1
6405 C 1
7250 B 4
7251 B 4
7252 B 4
7253 D 3
7254 B 4
7300 E 4
7400 D 3
7401 D 3
7402 C 1
7513 C 2
7514 D 4
9100 D 2
9101 D 2
9102 B 1
9103 D 1
9104 D 2
9105 D 2
9106 D 2
9107 C 2
9108 C 2
9109 C 2
9110 C 2
9111 B 2
9112 B 2
9113 B 2
9114 B 2
9115 B 2
9116 D 2
9117 A 2
9118 A 2
9119 A 2
9120 A 2
9121 A 2
9122 A 2
9123 A 2
9124 A 2
9125 A 3
9126 C 4
9127 C 1
9128 C 4
9130 A 3
9131 D 4
9132 B 3
9133 B 3
9134 E 4
9135 C 1
9136 B 1
9137 B 2
9138 C 3
9139 B 3
9140 C 3
9141 A 1
9143 C 4
9144 C 2
9145 C 4
9147 C 2
9148 A 1
9151 B 2
9152 B 2
9160 A 3
9161 B 3
9162 A 1
9163 A 1
9164 A 1
9167 E 4
9168 C 4
9169 C 4
9171 A 2

# Digrama Esquemático - AUDIO BOARD - AZ1202



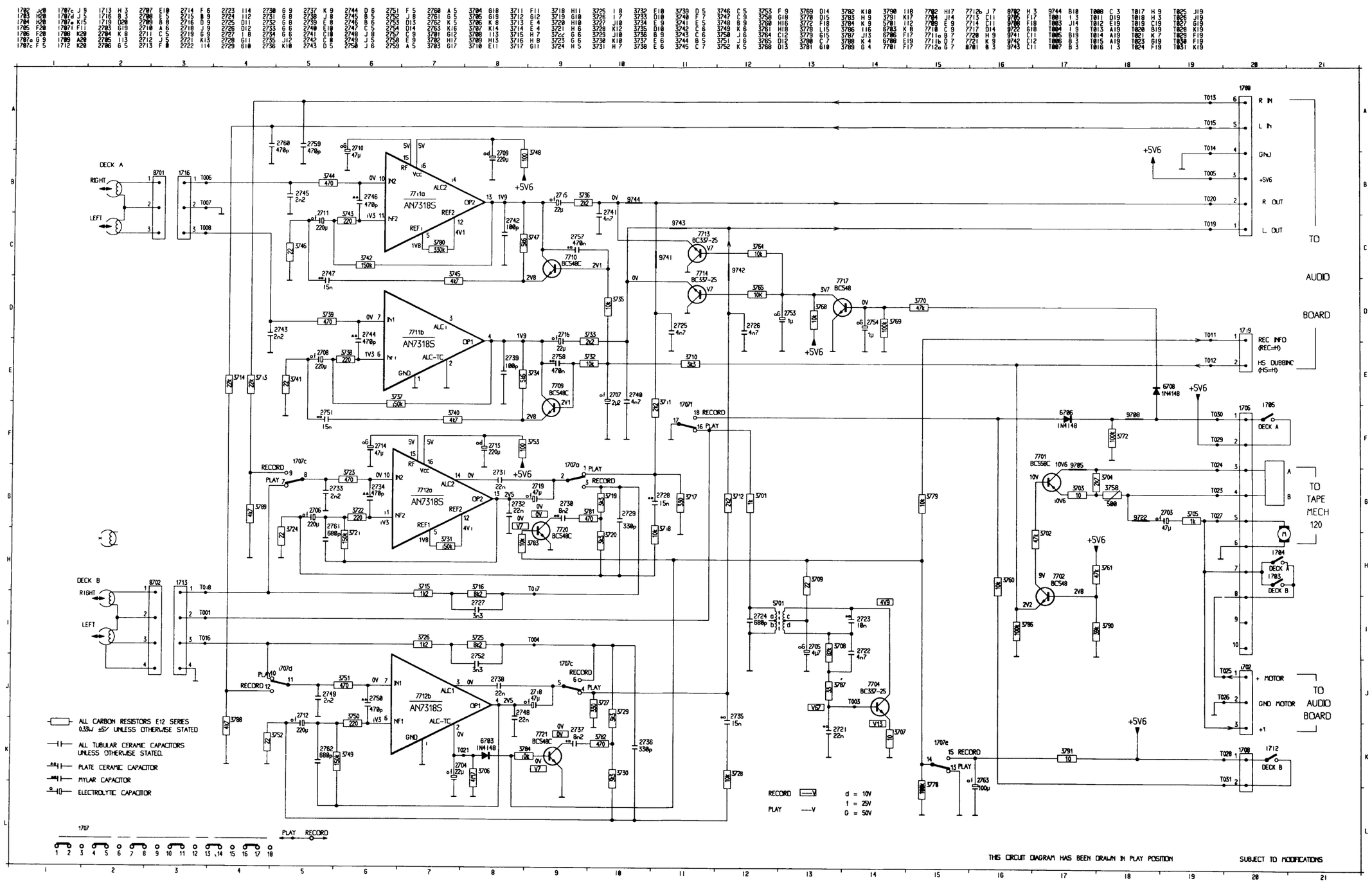

| VERSION / ITEM NO. | /00 | /01/11/1H | /05 | /10 | /13 | /14 | /17 |
|---|---|---|---|---|---|---|---|
| 1000b | 220V-230V 50Hz/60Hz | 110V-127V 220V-240V 50Hz/60Hz | 230V-240V 50Hz | 230V-240V 50Hz | 220V 60Hz | 220V-230V 50Hz | 120V 60Hz |
| 1301 | X | ✓ | X | X | X | X | X |
| 8262a & 8262b | X | ✓ | X | X | X | X | X |

# LAYOUT - AUDIO BOARD - AZ1202

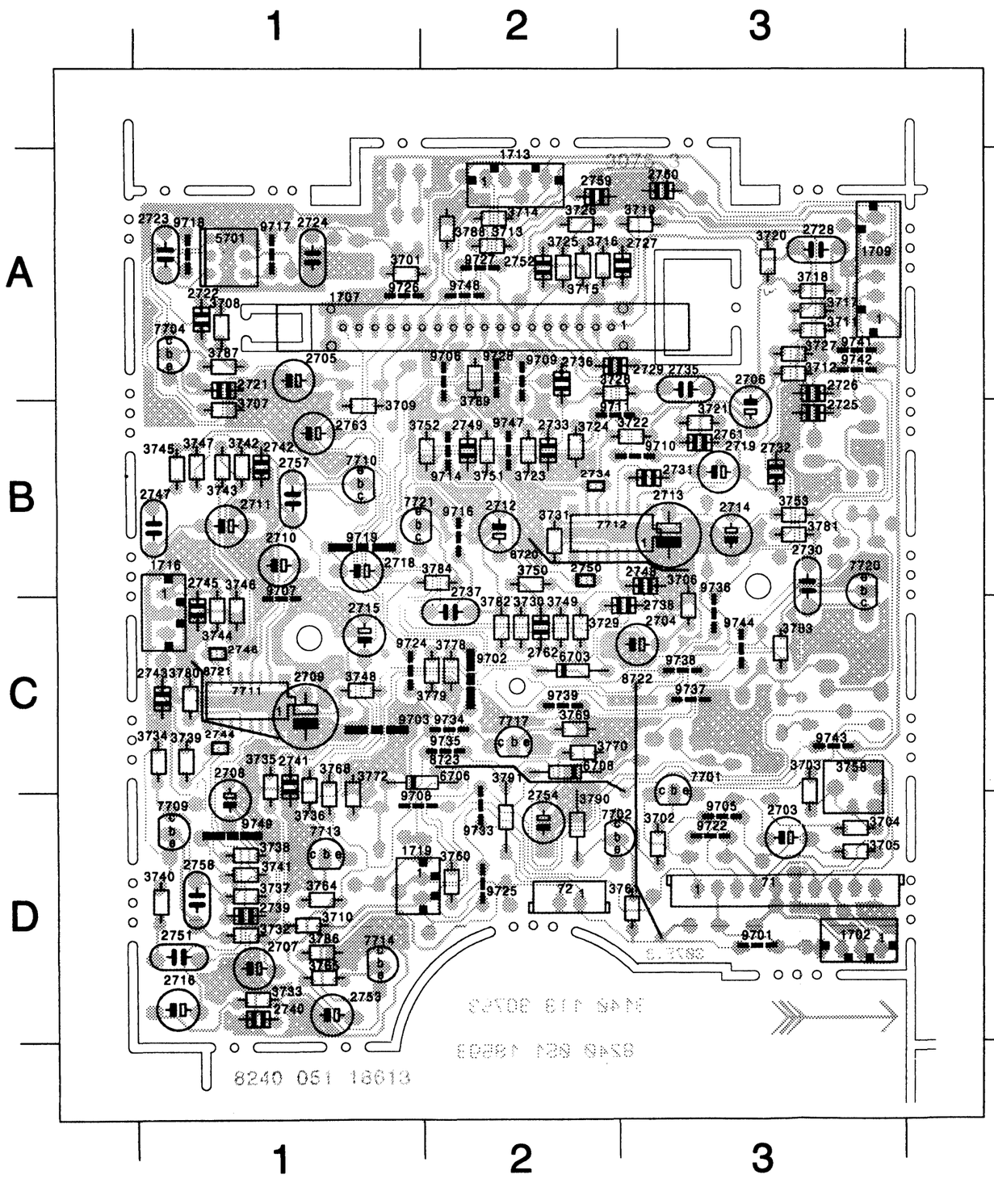



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1200 | A 3 | 3253 | B 3 | 6404 | B 1 | 9502 | C 2 |
| 1255 | E 2 | 3254 | B 4 | 6405 | C 1 | 9503 | C 2 |
| 1257 | E 2 | 3255 | B 4 | 7250 | B 4 | | |
| 1302 | A 4 | 3256 | B 4 | 7251 | B 4 | | |
| 1303 | A 3 | 3258 | B 4 | 7252 | B 4 | | |
| 1304 | A 4 | 3259 | B 4 | 7253 | D 3 | | |
| 1501 | C 2 | 3302 | E 4 | 7254 | B 4 | | |
| 1503 | D 1 | 3303 | E 4 | 7300 | E 4 | | |
| 1507 | C 1 | 3304 | E 4 | 7400 | D 4 | | |
| 1703 | C 4 | 3305 | D 4 | 7401 | D 3 | | |
| 1704 | A 4 | 3306 | E 3 | 7415 | B 4 | | |
| 1705 | A 3 | 3307 | E 3 | 7513 | C 3 | | |
| 1805 | A 4 | 3308 | E 2 | 7514 | C 4 | | |
| 2250 | E 2 | 3309 | E 2 | 9100 | D 2 | | |
| 2251 | E 2 | 3310 | E 3 | 9101 | D 2 | | |
| 2252 | E 3 | 3401 | C 1 | 9102 | B 1 | | |
| 2253 | E 3 | 3402 | C 1 | 9103 | D 1 | | |
| 2254 | E 3 | 3403 | C 1 | 9104 | D 2 | | |
| 2255 | E 3 | 3404 | D 3 | 9105 | C 2 | | |
| 2256 | E 4 | 3405 | D 3 | 9106 | C 2 | | |
| 2257 | E 4 | 3406 | D 3 | 9107 | D 2 | | |
| 2258 | E 4 | 3407 | D 3 | 9110 | C 2 | | |
| 2259 | E 4 | 3411 | C 1 | 9111 | B 2 | | |
| 2260 | D 4 | 3416 | B 4 | 9112 | B 2 | | |
| 2261 | D 4 | 3516 | E 1 | 9113 | B 2 | | |
| 2262 | D 4 | 3517 | E 1 | 9114 | B 2 | | |
| 2263 | E 3 | 3518 | D 1 | 9115 | B 2 | | |
| 2300 | A 3 | 3519 | E 1 | 9116 | D 2 | | |
| 2301 | A 3 | 3522 | D 1 | 9117 | A 2 | | |
| 2302 | A 4 | 3529 | C 4 | 9118 | A 2 | | |
| 2303 | A 4 | 3530 | C 4 | 9119 | A 2 | | |
| 2304 | A 3 | 3576 | C 3 | 9120 | A 2 | | |
| 2305 | D 4 | 3577 | C 2 | 9121 | A 2 | | |
| 2306 | B 4 | 3578 | B 3 | 9122 | A 2 | | |
| 2307 | B 3 | 3579 | B 3 | 9123 | A 2 | | |
| 2310 | B 1 | 3580 | B 2 | 9124 | A 2 | | |
| 2312 | B 4 | 3582 | C 3 | 9126 | C 4 | | |
| 2400 | C 1 | 3583 | D 3 | 9130 | A 3 | | |
| 2401 | C 1 | 3584 | C 3 | 9131 | D 4 | | |
| 2402 | C 1 | 3585 | D 3 | 9132 | B 3 | | |
| 2403 | A 1 | 3586 | C 4 | 9134 | B 2 | | |
| 2404 | B 1 | 3587 | C 3 | 9135 | D 1 | | |
| 2405 | B 1 | 3588 | D 1 | 9136 | B 1 | | |
| 2406 | D 4 | 3589 | C 2 | 9137 | B 2 | | |
| 2407 | B 1 | 3590 | D 1 | 9138 | B 3 | | |
| 2516 | D 1 | 3591 | C 1 | 9139 | B 3 | | |
| 2517 | E 1 | 3595 | A 2 | 9140 | B 3 | | |
| 2518 | E 1 | 3596 | A 3 | 9141 | A 1 | | |
| 2519 | E 1 | 3597 | A 3 | 9142 | D 1 | | |
| 2564 | C 3 | 3598 | A 3 | 9143 | D 1 | | |
| 2565 | B 1 | 3599 | A 3 | 9145 | D 4 | | |
| 2566 | C 3 | 3600 | A 3 | 9146 | C 2 | | |
| 2567 | D 3 | 3610 | B 1 | 9147 | C 2 | | |
| 2568 | C 3 | 3611 | B 1 | 9148 | A 1 | | |
| 2569 | C 3 | 3620 | C 4 | 9150 | C 3 | | |
| 2570 | C 4 | 3621 | C 3 | 9151 | B 2 | | |
| 2571 | D 3 | 3660 | C 1 | 9152 | B 2 | | |
| 2572 | D 3 | 3661 | C 2 | 9160 | A 3 | | |
| 2573 | C 1 | 5503 | A 2 | 9161 | B 3 | | |
| 2574 | C 1 | 6300 | A 3 | 9162 | A 1 | | |
| 2577 | B 3 | 6301 | A 3 | 9163 | A 1 | | |
| 2578 | A 3 | 6302 | A 4 | 9164 | A 1 | | |
| 2579 | C 3 | 6303 | A 4 | 9167 | E 4 | | |
| 2580 | C 4 | 6304 | B 4 | 9169 | C 4 | | |
| 3250 | B 4 | 6305 | D 3 | 9171 | A 2 | | |
| 3251 | B 4 | 6402 | C 1 | 9500 | C 2 | | |
| 3252 | B 4 | 6403 | C 1 | 9501 | C 2 | | |

# Digrama Esquemático ( MTF ) - TAPE DECK BOARD - AZ1602



# LAYOUT ( MTF ) - TAPE DECK BOARD - AZ1602




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 71 | D 3 | 2753 | D 1 | 3748 | C 1 | 9717 | A 1 |
| 72 | D 2 | 2754 | D 2 | 3749 | C 2 | 9718 | A 1 |
| 1702 | D 3 | 2757 | B 1 | 3750 | B 2 | 9719 | B 1 |
| 1707 | A 2 | 2758 | D 1 | 3751 | B 2 | 9722 | D 3 |
| 1709 | A 3 | 2759 | A 2 | 3752 | B 2 | 9724 | C 1 |
| 1713 | A 2 | 2760 | A 3 | 3753 | B 3 | 9725 | D 2 |
| 1716 | C 1 | 2761 | B 3 | 3758 | C 3 | 9726 | A 1 |
| 1719 | D 1 | 2762 | C 2 | 3760 | D 2 | 9727 | A 2 |
| 2703 | D 3 | 2763 | B 1 | 3761 | D 3 | 9728 | A 2 |
| 2704 | C 3 | 3701 | A 1 | 3764 | D 1 | 9733 | D 2 |
| 2705 | A 1 | 3702 | D 3 | 3765 | D 1 | 9734 | C 2 |
| 2706 | B 3 | 3703 | D 3 | 3768 | D 1 | 9735 | C 2 |
| 2707 | D 1 | 3704 | D 3 | 3769 | C 2 | 9736 | C 3 |
| 2708 | D 1 | 3705 | D 3 | 3770 | C 2 | 9737 | C 3 |
| 2709 | C 1 | 3706 | C 3 | 3772 | D 1 | 9738 | C 3 |
| 2710 | B 1 | 3707 | B 1 | 3778 | C 2 | 9739 | C 2 |
| 2711 | B 1 | 3708 | A 1 | 3779 | C 2 | 9741 | A 3 |
| 2712 | B 2 | 3709 | B 1 | 3780 | C 1 | 9742 | A 3 |
| 2713 | B 3 | 3710 | D 1 | 3781 | B 3 | 9743 | C 3 |
| 2714 | B 3 | 3711 | A 3 | 3782 | C 2 | 9744 | C 3 |
| 2715 | C 1 | 3712 | A 3 | 3783 | C 3 | 9747 | B 2 |
| 2716 | D 1 | 3713 | A 2 | 3784 | B 2 | 9748 | A 2 |
| 2718 | B 1 | 3714 | A 2 | 3786 | D 1 | 9749 | D 1 |
| 2719 | B 3 | 3715 | A 2 | 3787 | A 1 | 8720 | B 2 |
| 2721 | A 1 | 3716 | A 2 | 3788 | A 2 | 8721 | C 1 |
| 2722 | A 1 | 3717 | A 3 | 3789 | A 2 | 8722 | C 3 |
| 2723 | A 1 | 3718 | A 3 | 3790 | D 2 | 8723 | C 2 |
| 2724 | A 1 | 3719 | A 3 | 3791 | D 2 | | |
| 2725 | B 3 | 3720 | A 3 | 5701 | A 1 | | |
| 2726 | A 3 | 3721 | B 3 | 6703 | C 2 | | |
| 2727 | A 3 | 3722 | B 3 | 6706 | C 1 | | |
| 2728 | A 3 | 3723 | B 2 | 6708 | C 2 | | |
| 2729 | A 2 | 3724 | B 2 | 7701 | D 3 | | |
| 2730 | B 3 | 3725 | A 2 | 7702 | D 2 | | |
| 2731 | B 3 | 3726 | A 2 | 7704 | A 1 | | |
| 2732 | B 3 | 3727 | A 3 | 7709 | D 1 | | |
| 2733 | B 2 | 3728 | A 2 | 7710 | B 1 | | |
| 2734 | B 2 | 3729 | C 2 | 7711 | C 1 | | |
| 2735 | A 3 | 3730 | C 2 | 7712 | B 2 | | |
| 2736 | A 2 | 3731 | B 2 | 7713 | D 1 | | |
| 2737 | C 2 | 3732 | D 1 | 7714 | D 1 | | |
| 2738 | C 3 | 3733 | D 1 | 7717 | C 2 | | |
| 2739 | D 1 | 3734 | C 1 | 7720 | B 3 | | |
| 2740 | D 1 | 3735 | C 1 | 7721 | B 1 | | |
| 2741 | C 1 | 3736 | C 1 | 9701 | D 3 | | |
| 2742 | B 1 | 3737 | D 1 | 9702 | C 2 | | |
| 2743 | C 1 | 3738 | D 1 | 9703 | C 1 | | |
| 2744 | C 1 | 3739 | C 1 | 9705 | D 3 | | |
| 2745 | C 1 | 3740 | D 1 | 9706 | A 2 | | |
| 2746 | C 1 | 3741 | D 1 | 9707 | C 1 | | |
| 2747 | B 1 | 3742 | B 1 | 9708 | D 1 | | |
| 2748 | B 3 | 3743 | B 1 | 9709 | A 2 | | |
| 2749 | B 2 | 3744 | C 1 | 9710 | B 3 | | |
| 2750 | B 2 | 3745 | B 1 | 9711 | B 2 | | |
| 2751 | D 1 | 3746 | C 1 | 9714 | B 2 | | |
| 2752 | A 2 | 3747 | B 1 | 9716 | B 2 | | |

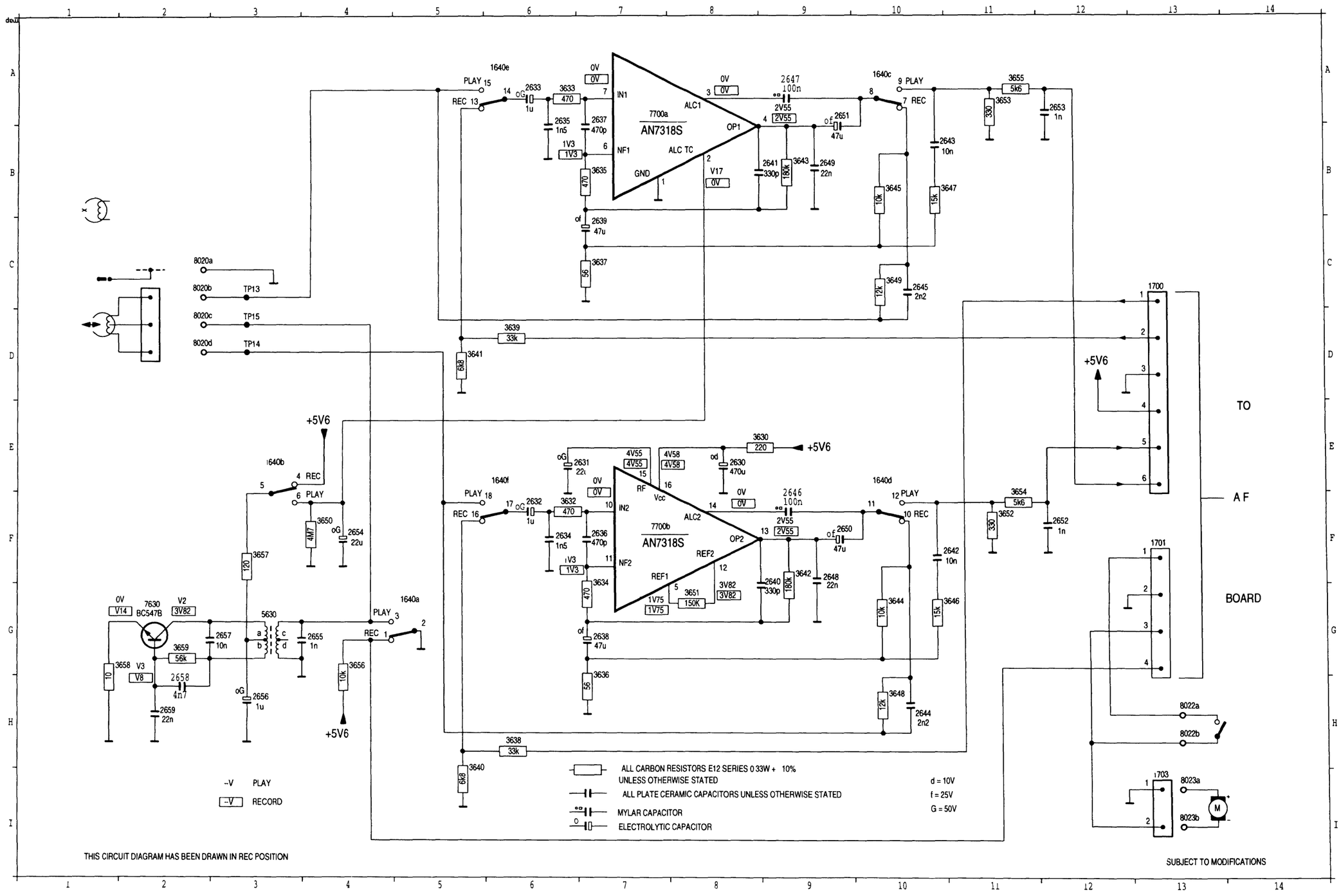
## AJUSTES DO TAPE - AZ1602

| Adjustment | Cassette | Recorder position | | | Measure on | Read on | Adjust with | Adjust to |
|---|---|---|---|---|---|---|---|---|
| | | SK | Deck 1 | Deck2 | | | | |
| Head Azimuth | 10KHz | Tape | Play | -- | H/P Jack | mV meter | Left screw of R/P head on Deck 1 | max |
| | | Tape | -- | Play | H/P Jack | mV meter | Left screw of R/P head on Deck 2 | L = R |
| Tape Speed | 3150Hz | Tape (nor speed) | Play | -- | H/P Jack | Wow and flutter meter | 3736 | **a |
| | | Tape (high speed) | Record | Play | H/P Jack | Frequency counter | Check only | 6 0KHz ±0 3KHz |

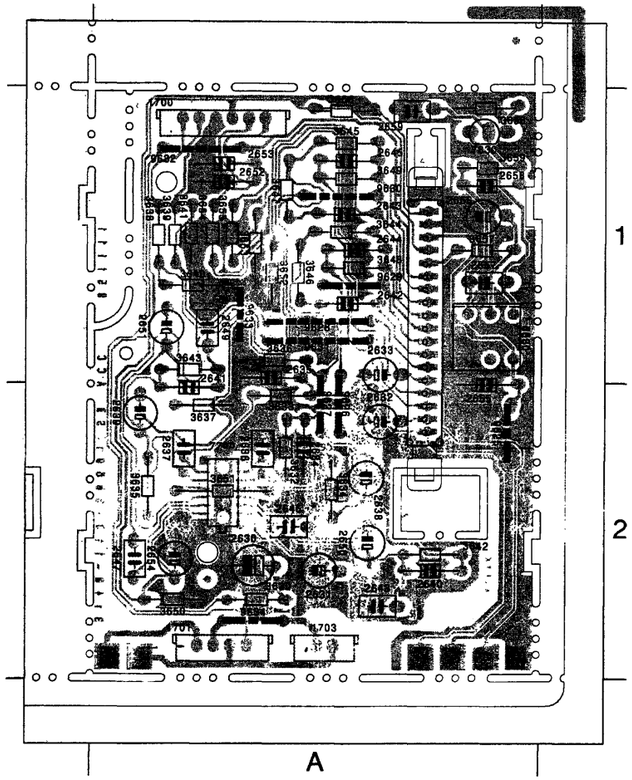
**a The maximum permissible speed deviation is ± 3%
Morever, the wow and flutter value can be read

# Digrama Esquemático - TAPE DECK BOARD - AZ1202

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1640a | G 5 | 1640e | A 6 | 1703 | I13 | 2633 | A 6 | 2637 | A 7 | 2641 | B 9 | 2645 | C10 | 2649 | B 9 | 2653 | A12 | 2657 | G 3 | 3632 | F 6 | 3636 | H 7 | 3640 | I 5 | 3644 | G10 | 3648 | H10 | 3652 | F11 | 3656 | G 4 | 5630 | G 3 | 8020a | C 3 | 8022a | H13 | TP13 | C 3 |
| 1640b | E 3 | 1640f | E 6 | 2630 | E 8 | 2634 | F 6 | 2638 | G 7 | 2642 | F11 | 2646 | F 9 | 2650 | F 9 | 2654 | F 4 | 2658 | H 2 | 3633 | A 6 | 3637 | C 7 | 3641 | D 5 | 3645 | B10 | 3649 | C10 | 3653 | A11 | 3657 | F 3 | 7630 | G 2 | 8020b | C 3 | 8022b | H13 | TP14 | D 3 |
| 1640c | A10 | 1700 | C13 | 2631 | E 7 | 2635 | A 6 | 2639 | C 7 | 2643 | B11 | 2647 | A 9 | 2651 | A 9 | 2655 | G 4 | 2659 | H 2 | 3634 | G 7 | 3638 | H 6 | 3642 | F 9 | 3646 | G11 | 3650 | F 4 | 3654 | F11 | 3658 | G 2 | 7700a | A 7 | 8020c | D 3 | 8023a | I13 | TP15 | D 3 |
| 1640d | E10 | 1701 | F13 | 2632 | F 6 | 2636 | F 7 | 2640 | G 9 | 2644 | H10 | 2648 | F 9 | 2652 | F12 | 2656 | H 3 | 3630 | E 9 | 3635 | B 7 | 3639 | D 6 | 3643 | B 9 | 3647 | B11 | 3651 | G 8 | 3655 | A11 | 3659 | G 2 | 7700b | F 7 | 8020d | D 3 | 8023b | I13 | | |

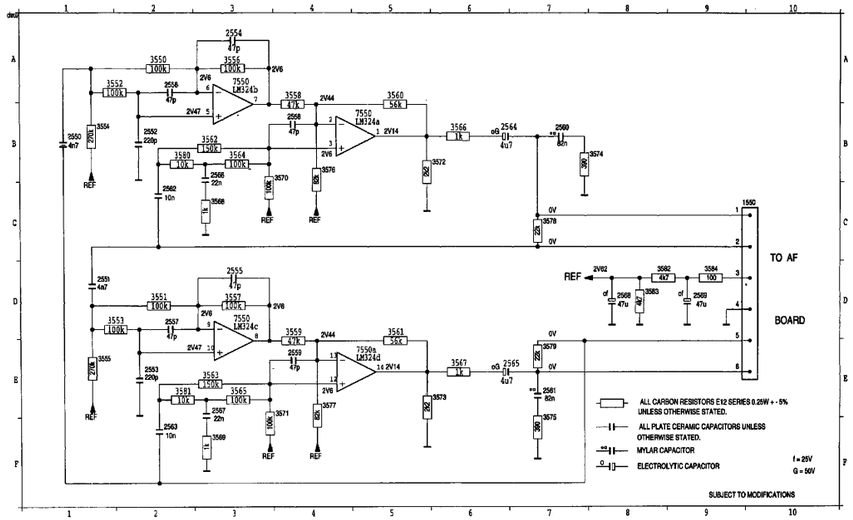


## LAYOUT - TAPE DECK BOARD - AZ1202

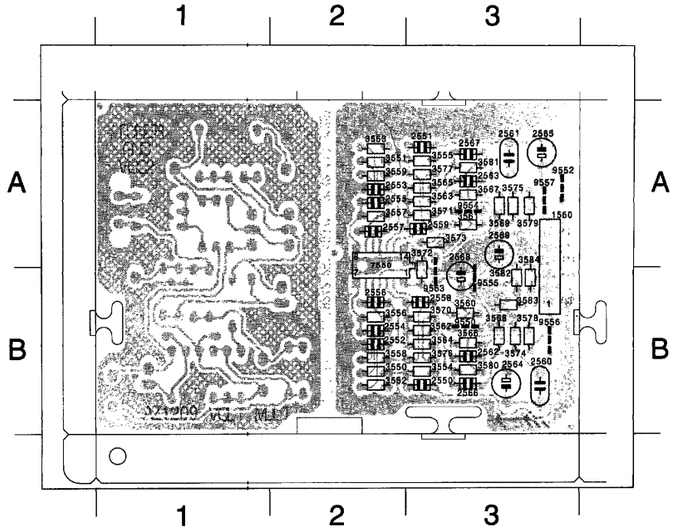


1619 A 1 1629 A 1 1639 A 2 2635 A 1 2645 A 1 2655 A 2 3636 A 1 3646 A 1 3656 A 1 9628 A 1 PAD4 A 2
1620 A 1 1630 A 1 1640 A 2 2636 A 2 2646 A 2 2656 A 1 3637 A 2 3647 A 1 3657 A 1 9629 A 1 PAD5 A 2
1621 A 2 1631 A 1 1700 A 1 2637 A 2 2647 A 2 2657 A 1 3638 A 1 3648 A 1 3658 A 1 9630 A 1 PAD6 A 2
1622 A 2 1632 A 1 1701 A 2 2638 A 2 2648 A 2 2658 A 1 3639 A 1 3649 A 1 3659 A 1 9631 A 1
1623 A 1 1633 A 1 1703 A 2 2639 A 2 2649 A 1 2659 A 1 3640 A 1 3650 A 2 5630 A 1 9632 A 1
1624 A 1 1634 A 1 2630 A 2 2640 A 2 2650 A 2 3630 A 2 3641 A 1 3651 A 2 7630 A 1 9633 A 1
1625 A 1 1635 A 1 2631 A 2 2641 A 2 2651 A 1 3632 A 2 3642 A 2 3652 A 1 7700 A 2 9635 A 2
1626 A 1 1636 A 1 2632 A 2 2642 A 1 2652 A 1 3633 A 2 3643 A 1 3653 A 1 9625 A 2 PAD1 A 2
1627 A 1 1637 A 2 2633 A 1 2643 A 1 2653 A 1 3634 A 2 3644 A 1 3654 A 1 9626 A 2 PAD2 A 2
1628 A 1 1638 A 2 2634 A 2 2644 A 1 2654 A 2 3635 A 2 3645 A 1 3655 A 1 9627 A 2 PAD3 A 2

## Diagrama Esquemático - INCREDIBLE SOUND BOARD - AZ1202


TO AF BOARD
ALL CARBON RESISTORS E12 SERIES 0.25W + - 5% UNLESS OTHERWISE STATED.
ALL PLATE CERAMIC CAPACITORS UNLESS OTHERWISE STATED.
MYLAR CAPACITOR
ELECTROLYTIC CAPACITOR
SUBJECT TO MODIFICATIONS

## LAYOUT - INCREDIBLE SOUND BOARD - AZ1202



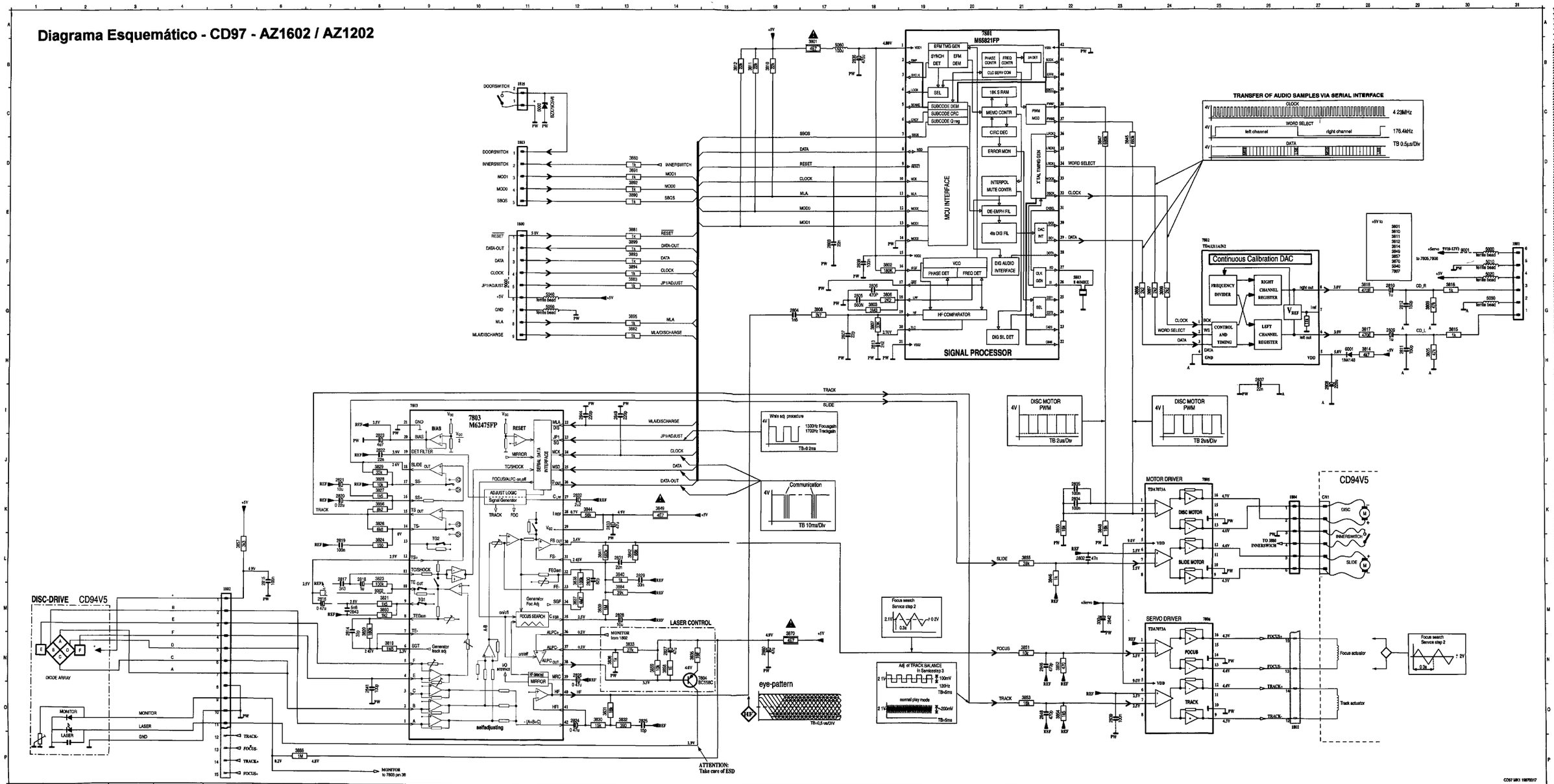
1550 B 3 3563 A 3
2550 B 3 3564 B 3
2551 A 3 3565 A 3
2552 B 2 3566 B 3
2553 A 2 3567 A 3
2554 B 2 3568 B 3
2555 A 2 3569 A 3
2556 B 2 3570 B 3
2557 A 2 3571 A 3
2558 B 3 3572 B 3
2559 A 3 3573 A 3
2560 B 3 3574 B 3
2561 A 3 3575 A 3
2562 B 3 3576 B 3
2563 A 3 3577 A 3
2564 B 3 3578 B 3
2565 A 3 3579 A 3
2566 B 3 3580 B 3
2567 A 3 3581 A 3
2568 B 3 3582 B 3
2569 A 3 3583 B 3
3550 B 2 3584 B 3
3551 A 2 7550 A 2
3552 B 2 9550 B 3
3553 A 2 9552 A 3
3554 B 3 9553 B 3
3555 A 3 9554 A 3
3556 B 2 9555 B 3
3557 A 2 9556 B 3
3558 B 2 9557 A 3
3559 A 2
3560 B 3
3561 A 3
3562 B 3

## AJUSTES DO TAPE - AZ1202

| Adjustment | Cassette | SK .... | Tape Deck | Measure on | Read on | Adjust with | Adjust to |
|---|---|---|---|---|---|---|---|
| Head Azimuth | SBC420* 10KHz | Tape | Play | H/P jack | mV meter | Left hand Screw R/P Head | max. L = R |
| Tape speed Wow & flutter | SBC420* 3150Hz | Tape | Play | H/P jack | Wow and flutter meter | Preset VR in motor | **a |

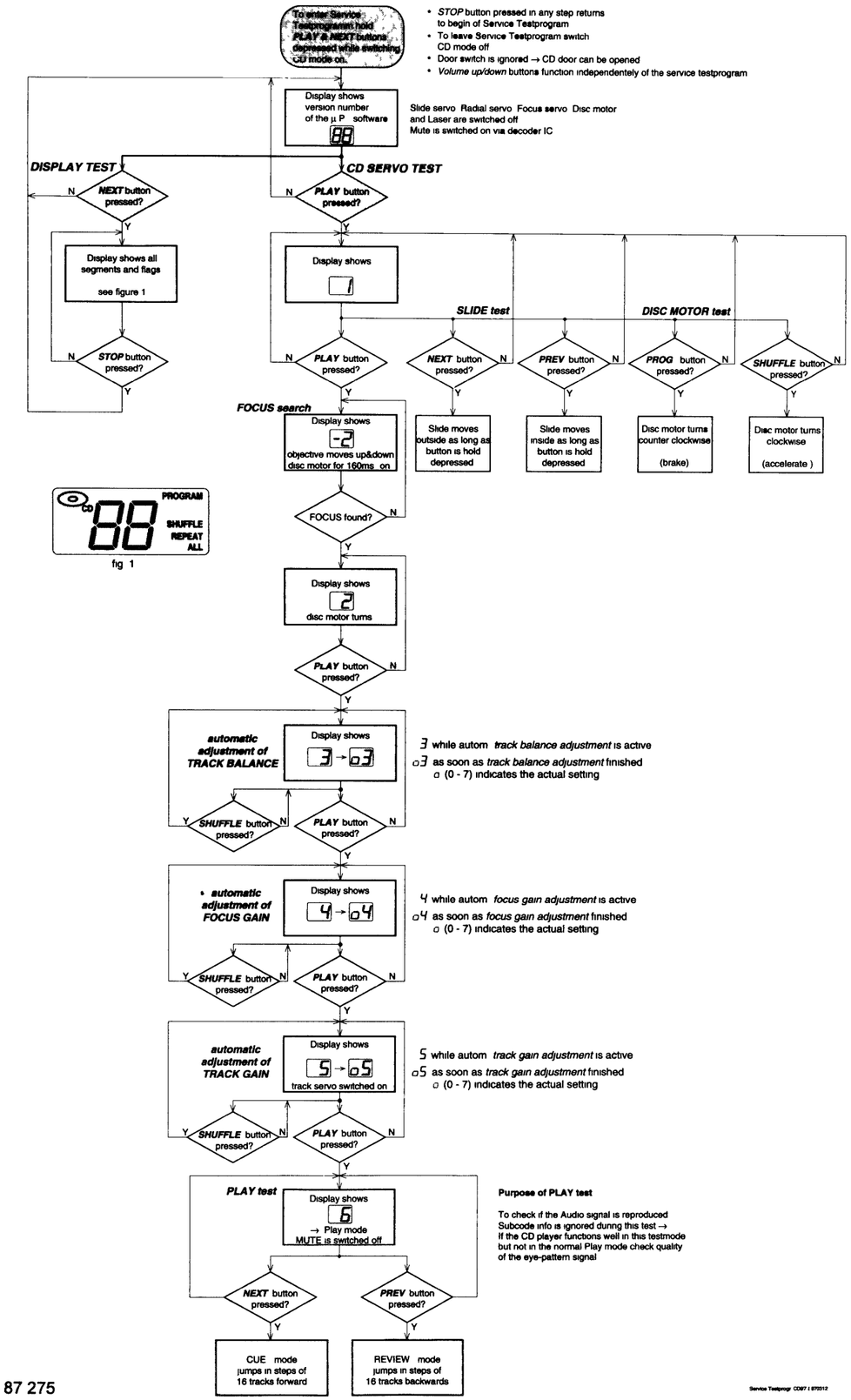
**a The maximum permissible speed deviation is ± 3%.
Morever, the wow and flutter value can be read.

# Diagrama Esquemático - CD97 - AZ1602 / AZ1202



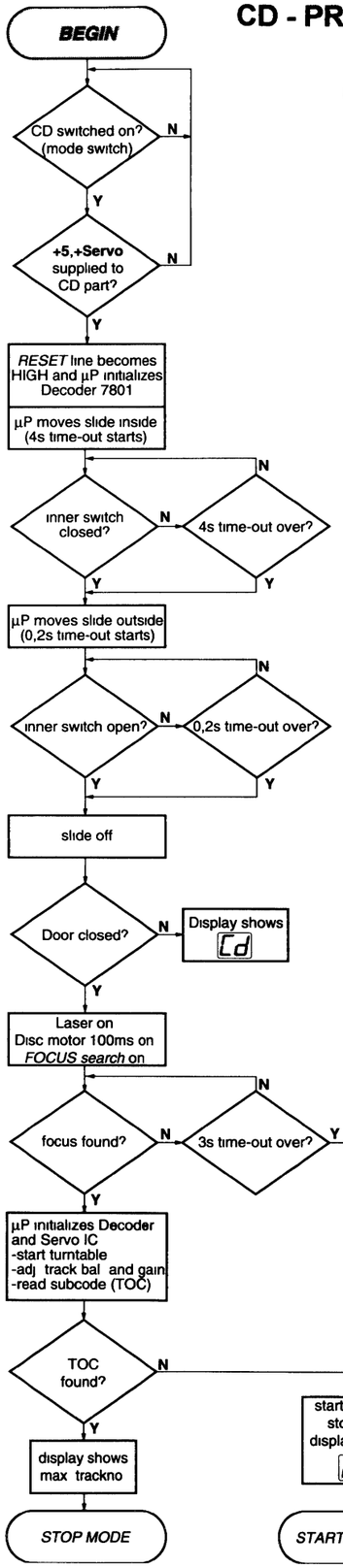

PCS 87 273

# CD - PROGRAMA DE TESTE DE SERVIÇO - AZ1602 / AZ1202


To enter Service Testprogram hold PLAY & NEXT buttons depressed while switching CD mode on.
• STOP button pressed in any step returns to begin of Service Testprogram
• To leave Service Testprogram switch CD mode off
• Door switch is ignored → CD door can be opened
• Volume up/down buttons function independentely of the service testprogram
Display shows version number of the µ P software
88
Slide servo Radial servo Focus servo Disc motor and Laser are switched off
Mute is switched on via decoder IC
DISPLAY TEST
CD SERVO TEST
NEXT button pressed?
PLAY button pressed?
Display shows all segments and flags
see figure 1
STOP button pressed?
Display shows
1
SLIDE test
DISC MOTOR test
PLAY button pressed?
NEXT button pressed?
PREV button pressed?
PROG button pressed?
SHUFFLE button pressed?
FOCUS search
Display shows
-2
objective moves up&down disc motor for 160ms on
Slide moves outside as long as button is hold depressed
Slide moves inside as long as button is hold depressed
Disc motor turns counter clockwise
(brake)
Disc motor turns clockwise
(accelerate )
FOCUS found?
PROGRAM
SHUFFLE
REPEAT
ALL
fig 1
Display shows
2
disc motor turns
PLAY button pressed?
automatic adjustment of TRACK BALANCE
Display shows
3 → o3
3 while autom track balance adjustment is active
o3 as soon as track balance adjustment finished
o (0 - 7) indicates the actual setting
SHUFFLE button pressed?
PLAY button pressed?
automatic adjustment of FOCUS GAIN
Display shows
4 → o4
4 while autom focus gain adjustment is active
o4 as soon as focus gain adjustment finished
o (0 - 7) indicates the actual setting
automatic adjustment of TRACK GAIN
Display shows
5 → o5
track servo switched on
5 while autom track gain adjustment is active
o5 as soon as track gain adjustment finished
o (0 - 7) indicates the actual setting
PLAY test
Display shows
6
→ Play mode
MUTE is switched off
Purpose of PLAY test
To check if the Audio signal is reproduced
Subcode info is ignored during this test →
If the CD player functions well in this testmode but not in the normal Play mode check quality of the eye-pattern signal
NEXT button pressed?
PREV button pressed?
CUE mode jumps in steps of 16 tracks forward
REVIEW mode jumps in steps of 16 tracks backwards

Service Testprogr CD87 I 870312

# CD - PROCEDIMENTO INICIAL - AZ1602 / AZ1202



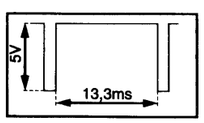

**Remark** To check focus servo, slide servo, track servo and turntable use service test program

- Battery empty?
- check **+5** and **+Servo**

check - door switch

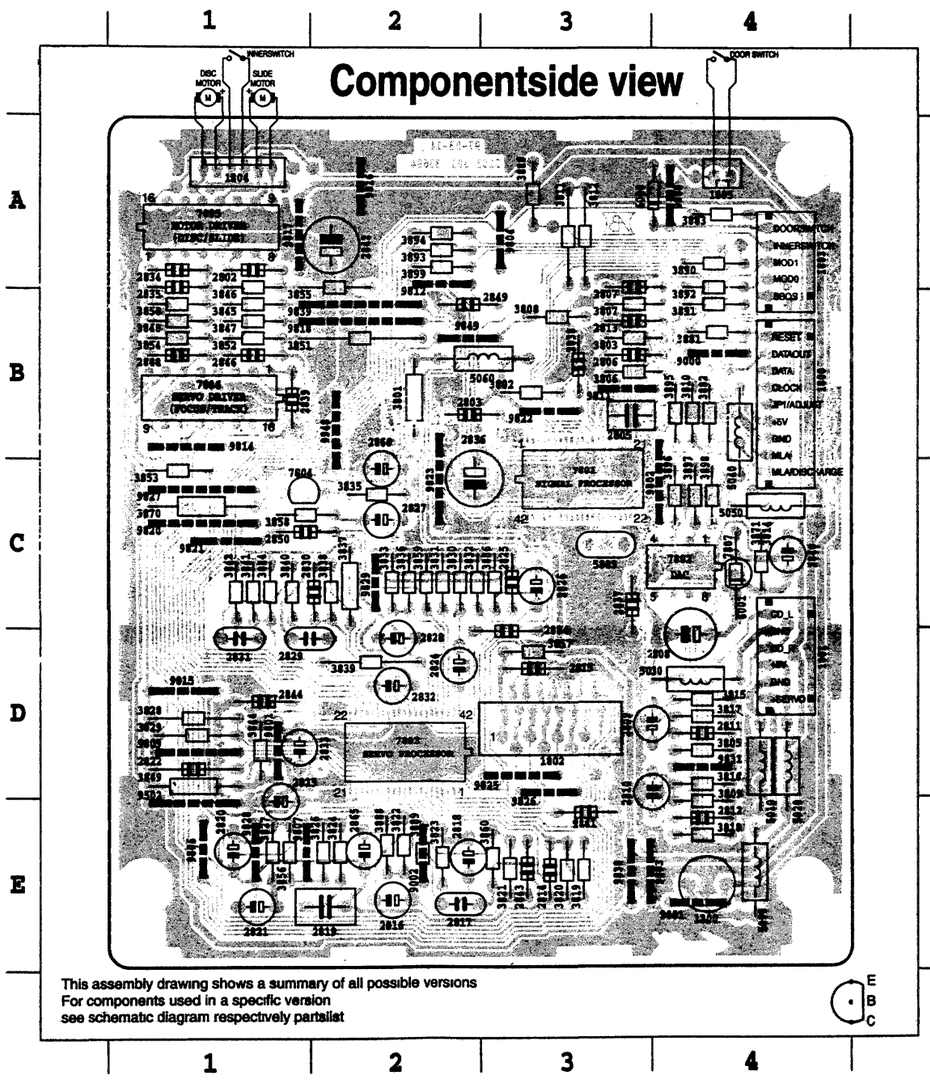
check - Laser light on ? - Check pin 38 of 7803 and *LASER CONTROL* circuit
- Focus Servo

check - Motor control pin 37/38 of Decoder 7801 and Disc Motor driver 7805
- HF Signal
- Signal on pin7 of Decoder 7801

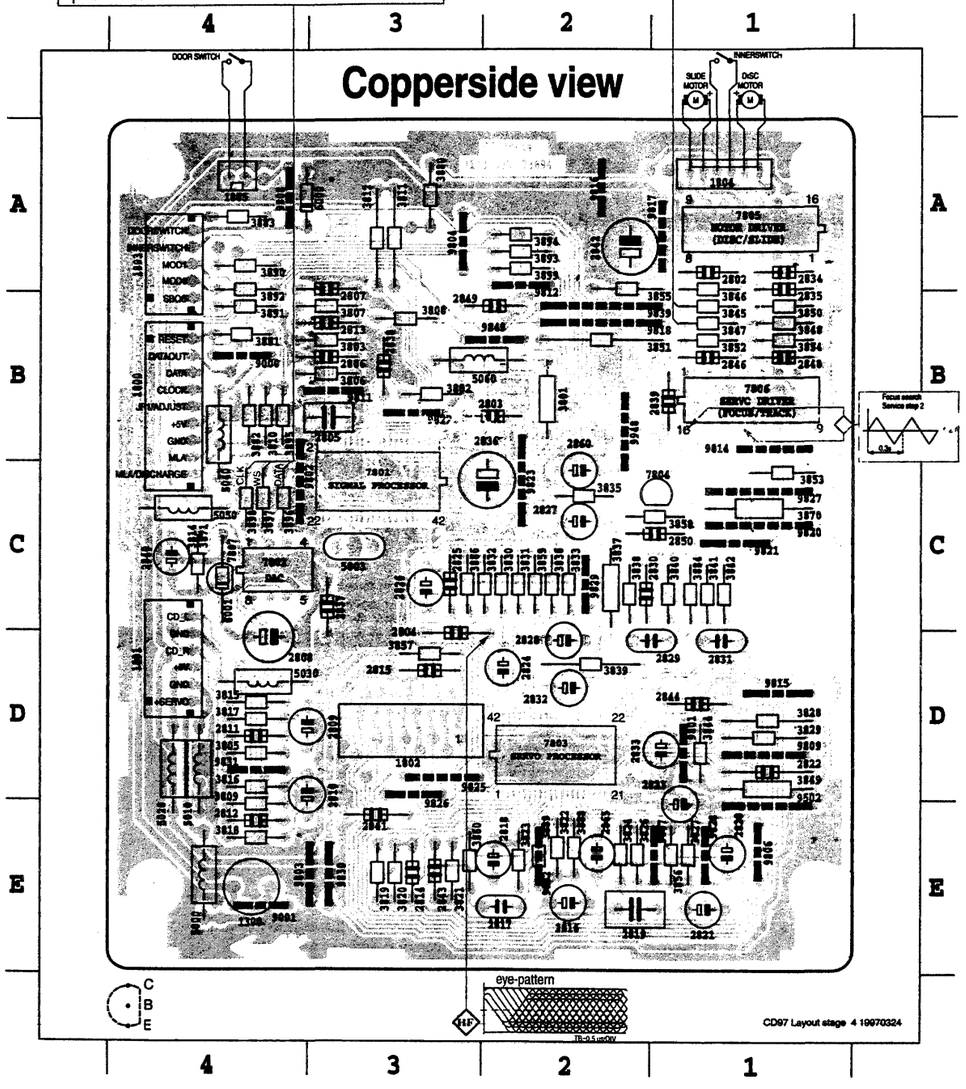



Startup CD87 870310

# LAYOUT - CD97 - AZ1602 / AZ1202

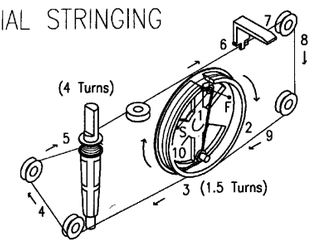


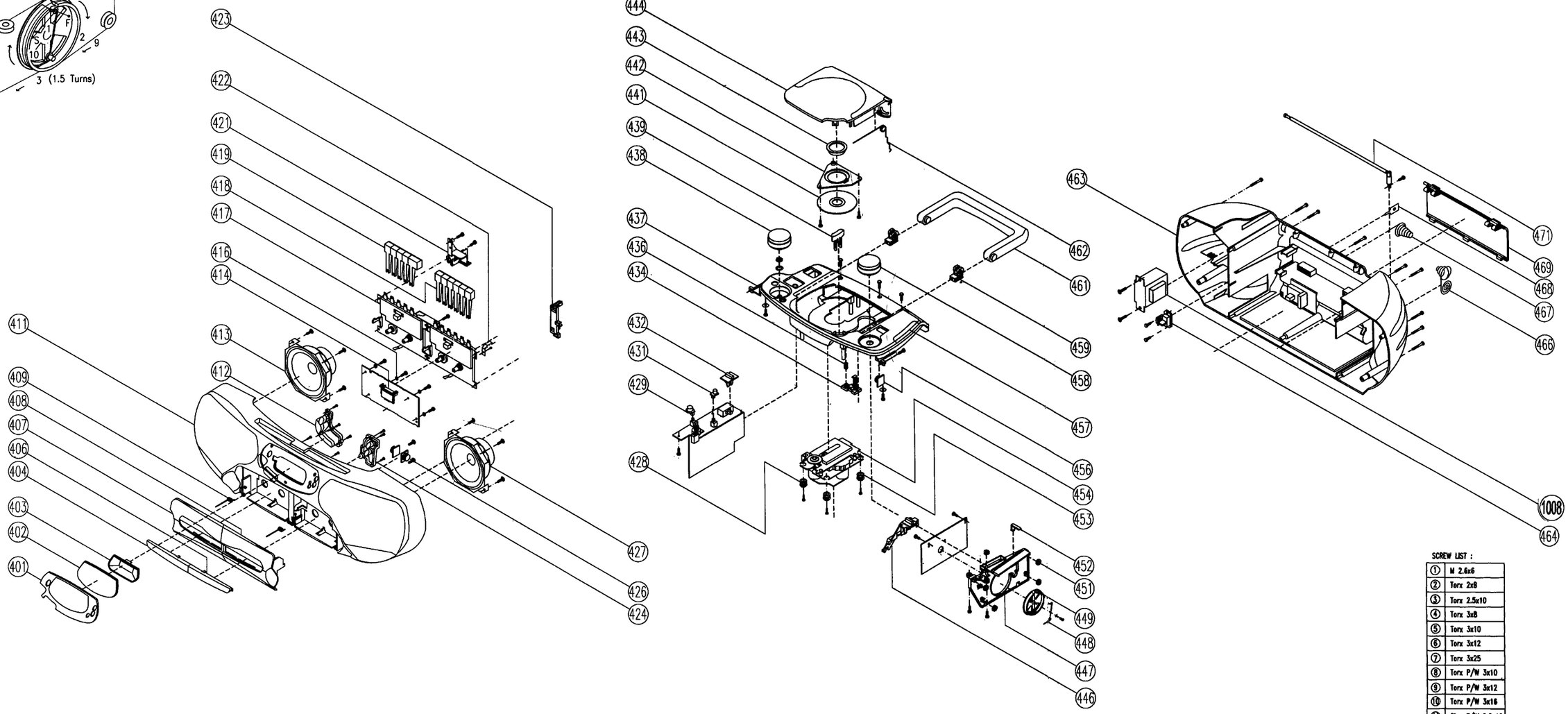

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1300 | E 4 | 3807 | B 3 | 3891 | B 4 | 2822 | D 1 | 3837 | C 2 | 9502 | E 1 |
| 1800 | B 4 | 3808 | B 3 | 3892 | A 4 | 2823 | E 1 | 3838 | C 2 | 9801 | D 1 |
| 1801 | D 4 | 3809 | E 4 | 3893 | A 2 | 2824 | D 2 | 3839 | D 2 | 9802 | C 4 |
| 1802 | D 3 | 3810 | B 4 | 3894 | A 2 | 2825 | C 3 | 3840 | C 1 | 9803 | E 3 |
| 1803 | A 4 | 3811 | A 3 | 3895 | B 4 | 2826 | C 3 | 3841 | C 1 | 9804 | A 3 |
| 1804 | A 1 | 3812 | A 3 | 3896 | C 4 | 2827 | C 2 | 3842 | C 1 | 9806 | E 1 |
| 1805 | A 4 | 3814 | C 4 | 3897 | C 4 | 2828 | D 2 | 3844 | D 1 | 9807 | E 1 |
| 2802 | A 1 | 3815 | D 4 | 3898 | C 4 | 2829 | D 1 | 3845 | B 1 | 9808 | A 4 |
| 2803 | B 2 | 3816 | D 4 | 3899 | A 2 | 2830 | C 2 | 3846 | A 1 | 9809 | D 1 |
| 2804 | D 3 | 3817 | D 4 | 5000 | E 4 | 2831 | D 1 | 3847 | B 1 | 9811 | B 3 |
| 2805 | B 3 | 3818 | E 4 | 5010 | D 4 | 2832 | D 2 | 3848 | B 1 | 9812 | A 2 |
| 2806 | B 3 | 3819 | E 3 | 5020 | D 4 | 2833 | D 1 | 3849 | D 1 | 9814 | B 1 |
| 2807 | A 3 | 3820 | E 3 | 5030 | D 4 | 2834 | A 1 | 3850 | B 1 | 9815 | D 1 |
| 2808 | D 4 | 3821 | E 3 | 5040 | B 4 | 2835 | A 1 | 3851 | B 2 | 9816 | A 2 |
| 2809 | D 4 | 3822 | E 2 | 5050 | C 4 | 2836 | C 2 | 3852 | B 1 | 9817 | A 1 |
| 2810 | D 4 | 3823 | E 2 | 5060 | B 3 | 2837 | C 3 | 3853 | C 1 | 9818 | B 2 |
| 2811 | D 4 | 3824 | E 2 | 5803 | C 3 | 2838 | B 3 | 3854 | B 1 | 9820 | C 1 |
| 2812 | E 4 | 3826 | E 2 | 6000 | A 4 | 2839 | B 1 | 3855 | A 2 | 9821 | C 1 |
| 2813 | B 3 | 3827 | E 1 | 6001 | C 4 | 2840 | C 4 | 3856 | E 1 | 9822 | B 3 |
| 2814 | E 3 | 3828 | D 1 | 7802 | C 4 | 2841 | E 3 | 3857 | D 3 | 9823 | C 2 |
| 2815 | D 3 | 3829 | D 1 | 7804 | C 1 | 2842 | A 2 | 3858 | C 1 | 9825 | D 3 |
| 2816 | E 2 | 3830 | C 2 | 7805 | A 1 | 2843 | E 3 | 3859 | C 2 | 9826 | D 3 |
| 2817 | E 2 | 3831 | C 2 | 7806 | B 1 | 2844 | D 1 | 3860 | E 3 | 9827 | C 1 |
| 2818 | E 2 | 3832 | C 2 | 7807 | C 4 | 2846 | B 1 | 3870 | C 1 | 9828 | E 1 |
| 2819 | E 2 | 3833 | C 2 | 9000 | B 4 | 2848 | B 1 | 3871 | C 4 | 9829 | C 2 |
| 2820 | E 1 | 3835 | C 2 | 9001 | E 4 | 2849 | B 2 | 3880 | A 3 | 9830 | E 3 |
| 2821 | E 1 | 3836 | C 2 | 9002 | E 2 | 2850 | C 1 | 3881 | B 4 | 9831 | D 4 |
| 2822 | D 1 | 3837 | C 2 | 9502 | E 1 | 2860 | C 2 | 3882 | B 4 | 9839 | B 2 |
| 2823 | E 1 | 3838 | C 2 | 9801 | D 1 | 2865 | E 2 | 3883 | A 4 | 9849 | B 2 |
| 2824 | D 2 | 3839 | D 2 | 9802 | C 4 | 3801 | B 2 | 3884 | C 1 | 9948 | B 2 |
| 2825 | C 3 | 3840 | C 1 | 9803 | E 3 | 3802 | B 3 | 3886 | C 3 | 7801 | C 3 |
| 2826 | C 3 | 3841 | C 1 | 9804 | A 3 | 3803 | B 3 | 3888 | E 2 | 7803 | D 2 |
| 2827 | C 2 | 3842 | C 1 | 9806 | E 1 | 3805 | D 4 | 3889 | E 2 | | |
| 2828 | D 2 | 3844 | D 1 | 9807 | E 1 | 3806 | B 3 | 3890 | A 4 | | |



## VISTA EXPLODIDA DO APARELHO - AZ1602

DIAL STRINGING

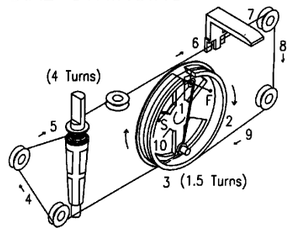


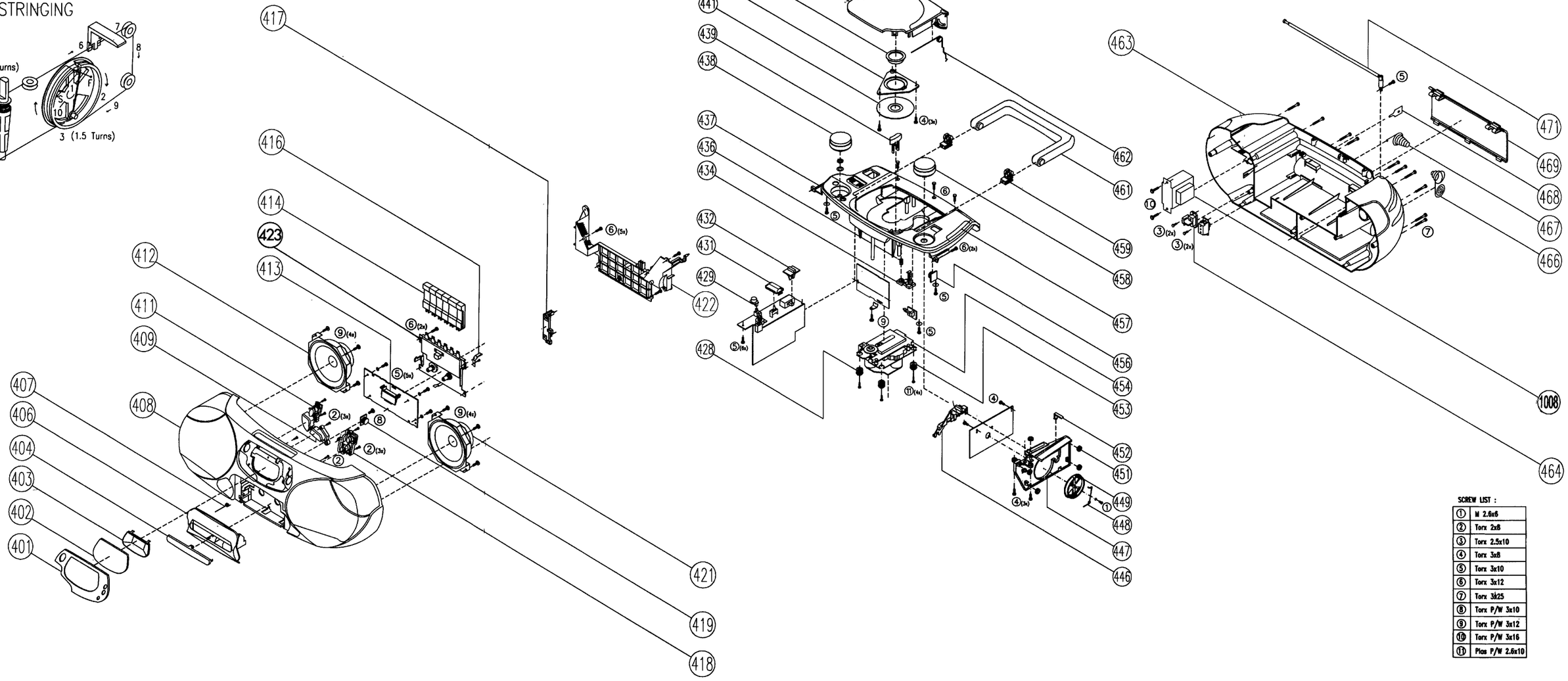




| SCREW LIST : | |
|---|---|
| ① | M 2.6x6 |
| ② | Torx 2x8 |
| ③ | Torx 2.5x10 |
| ④ | Torx 3x8 |
| ⑤ | Torx 3x10 |
| ⑥ | Torx 3x12 |
| ⑦ | Torx 3x25 |
| ⑧ | Torx P/W 3x10 |
| ⑨ | Torx P/W 3x12 |
| ⑩ | Torx P/W 3x16 |
| ⑪ | Plas P/W 2.6x10 |

# VISTA EXPLODIDA DO APARELHO - AZ1202

DIAL STRINGING




| SCREW LIST : | |
|---|---|
| ① | M 2.6x6 |
| ② | Torx 2x8 |
| ③ | Torx 2.5x10 |
| ④ | Torx 3x8 |
| ⑤ | Torx 3x10 |
| ⑥ | Torx 3x12 |
| ⑦ | Torx 3x25 |
| ⑧ | Torx P/W 3x10 |
| ⑨ | Torx P/W 3x12 |
| ⑩ | Torx P/W 3x16 |
| ⑪ | Plas P/W 2.6x10 |

## LISTA MECÂNICA - AZ1602

| Pos. | DESCRIÇÃO | CÓDIGO |
|---|---|---|
| 401 | Painel Frontal p/ CD | 4822 459 04566 |
| 402 | Lente do CD | 4822 450 10325 |
| 403 | Lente p/ LCD | 4822 381 11874 |
| 404 | Lente p/ Tampa K7 (ESQUERDA) | 4822 450 10323 |
| 406 | Lente p/ Tampa K7 (DIREITA) | 4822 450 10324 |
| 407 | Tampa K7 (ESQUERDA) | 4822 443 10656 |
| 408 | Tampa K7 (DIREITA) | 4822 443 10657 |
| 409 | Mola da Tampa K7 | 4822 492 42709 |
| 411 | Gabinete Frontal | 4822 459 04565 |
| 412 | Conj Botão 1 - CD | 4822 410 11129 |
| 413 | Falante 4W | 4822 240 10094 |
| 414 | Suporte p/ LCD | 4822 402 10722 |
| 416 | Espaçador do PCB | 4822 532 12797 |
| 417 | TAPE DECK montado | 4822 691 10591 |
| 418 | Conj Botão K7 (DIREITO) | 4822 410 11122 |
| 419 | Conj Botão K7 (ESQUERDO) | 4822 410 11121 |
| 421 | Suporte p/ PCB | 4822 404 10928 |
| 422 | Mola de Gravação | 4822 492 11061 |
| 423 | Alavanca de Gravação | 4822 402 10126 |
| 424 | Conj Botão 2 - CD | 4822 410 11131 |
| 426 | Hidraulico p/ Tampa K7 | 4822 529 10322 |
| 427 | Falante 4W | 4822 240 10094 |
| 428 | Amortecedor de borracha p/ CDM | 4822 529 10387 |
| 429 | Botão - DBB | 4822 410 11124 |
| 431 | Botão - Hi Sp Dubbing | 4822 410 11125 |
| 432 | Botão - MODO | 4822 410 11123 |
| 434 | Alavanca - EJECT | 4822 402 10723 |
| 436 | Mola p/ Alavanca - EJECT | 4822 492 11058 |
| 437 | Parte Superior do Gabinete | 4822 418 10258 |
| 438 | Botão - VOLUME | 4822 410 11132 |
| 439 | Botão - OPEN | 4822 410 11128 |
| 441 | Disco | 4822 535 60096 |
| 442 | Suporte p/ Disco do CD | 4822 402 61508 |
| 443 | Anel de pressão do disco | 4822 532 12798 |
| 444 | Tampa CD | 4822 443 10654 |
| 446 | Botão - BANDA | 4822 410 11127 |
| 447 | Suporte p/ placa de Sintonia | 4822 464 10294 |
| 448 | Mola p/ volante de Sintonia | 4822 492 40854 |
| 449 | Volante de Sintonia | 4822 528 40208 |
| 451 | Polia p/ Ponteiro | 4822 528 80907 |
| 452 | PONTEIRO | 4822 450 10322 |
| 453 | Amortecedor de borracha p/ CDM | 4822 529 10386 |
| 454 | CDM - CD94V5T1 | 4822 691 10587 |
| 456 | Amortecedor p/ Tampa CD | 4822 529 10322 |
| 457 | Lente p/ sintonia | 4822 450 10321 |
| 458 | Botão - TUNING | 4822 410 11126 |
| 459 | Suporte p/ Alça | 4822 402 10724 |
| 461 | Alça | 4822 498 10644 |
| 462 | Mola p/ Tampa do CD | 4822 492 11418 |
| 463 | Gabinete Traseiro | 4822 426 10436 |
| 464 | Soquete de Rede | 4822 265 20318 |
| 466 | Mola p/ Pilha ( + / - ) | 4822 492 51733 |
| 467 | Mola p/ Pilha ( - ) | 4822 492 51961 |
| 468 | Placa de contato p/ Pilha (+) | 4822 290 80313 |
| 469 | Tampa da Bateria | 4822 443 10655 |
| 471 | Antena Telescópica | 4822 303 14038 |
| 1008 | Transformador de Rede 110/220V | 4822 146 10794 |
| | Cabo de Rede | 4806 321 17067 |

## LISTA MECÂNICA - AZ1202

| Pos. | DESCRIÇÃO | CÓDIGO |
|---|---|---|
| 401 | Painél Frontal p/ CD | 4822 459 04629 |
| 402 | Lente do CD | 4822 450 10364 |
| 403 | Lente p/ LCD | 4822 450 10361 |
| 404 | Lente p/ Tampa K7 | 4822 450 10362 |
| 406 | Tampa K7 | 4822 443 10733 |
| 407 | Mola da Tampa K7 | 4822 492 42709 |
| 408 | Gabinete Frontal | 4822 459 04631 |
| 409 | Conj Botão - SEARCH | 4822 410 11243 |
| 411 | Conj Botão - PLAY | 4822 410 11242 |
| 412 | Falante 4W (1,6W) | 4822 240 10248 |
| 413 | Suporte p/ LCD | 4822 402 10722 |
| 414 | Conj Botão K7 | 4822 410 11239 |
| 416 | Mola de Gravação | 4822 492 11061 |
| 417 | Alavanca de Gravação | 4822 402 10126 |
| 418 | Botão - SHUFFLE | 4822 410 11237 |
| 419 | Hidráulico p/ Tampa K7 | 4822 529 10322 |
| 421 | Falante 4W (1,6W) | 4822 240 10248 |
| 422 | Suporte para painel | 4822 402 10784 |
| 423 | Tape Deck (conjunto) | 4822 691 10612 |
| 428 | Amortecedor de borracha p/ CDM | 4822 529 10387 |
| 429 | Botão - DBB | 4822 410 11124 |
| 431 | Botão - Hi Sp Dubbing | 4822 410 11241 |
| 432 | Botão - MODO | 4822 410 11123 |
| 434 | Alavanca - EJECT | 4822 402 10723 |
| 436 | Mola p/ Alavanca - EJECT | 4822 492 11058 |
| 437 | Parte Superior do Gabinete | 4822 418 10269 |
| 438 | Botão - VOLUME | 4822 410 11132 |
| 439 | Botão - OPEN | 4822 410 11128 |
| 441 | DISCO | 4822 535 60096 |
| 442 | Suporte p/ Disco do CD | 4822 402 61508 |
| 443 | Anél de pressão do disco | 4822 532 12798 |
| 444 | Tampa CD | 4822 443 10654 |
| 446 | Botão - BANDA | 4822 410 11238 |
| 447 | Suporte p/ placa de Sintonia | 4822 464 10294 |
| 448 | Mola p/ volante de Sintonia | 4822 492 40854 |
| 449 | Volante de Sintonia | 4822 528 40208 |
| 451 | Polia p/ Ponteiro | 4822 528 80907 |
| 452 | PONTEIRO | 4822 450 10322 |
| 453 | Amortecedor de borracha p/ CDM | 4822 529 10386 |
| 454 | CDM - CD94V5T1 | 4822 691 10587 |
| 456 | Amortecedor p/ Tampa CD | 4822 529 10322 |
| 457 | Lente p/ sintonia | 4822 450 10359 |
| 458 | Botão - TUNING | 4822 410 11126 |
| 459 | Suporte p/ Alça | 4822 402 10724 |
| 461 | Alça | 4822 498 10644 |
| 462 | Mola p/ Tampa do CD | 4822 492 11418 |
| 463 | Gabinete Traseiro | 4822 426 10473 |
| 464 | Soquete de Rede | 4822 265 20318 |
| 466 | Mola p/ Pilha ( + / - ) | 4822 492 51733 |
| 467 | Mola p/ Pilha ( - ) | 4822 492 51961 |
| 468 | Placa de contato p/ Pilha (+) | 4822 290 80313 |
| 469 | Tampa da Bateria | 4822 443 10655 |
| 471 | Antena Telescópica | 4822 303 14038 |
| 1008 | Transformador de Rede 110/220V | 4822 146 10821 |
| | Cabo de Rede | 4806 321 17067 |
| | MAGNETO ( = AZ1602 ) | 4822 526 20168 |

**Obs. :** As peças que constam desta lista, são as únicas disponíveis para reposição.

## LISTA MECANICA DO DECK - AZ1602

| | | |
|---|---|---|
| | DECK montado | 4822 691 10591 |
| 10 | Suporte p/ Rolo Presso | 4822 528 70849 |
| 11 | Rolo Pressor | 4822 528 70695 |
| 74 | Alavanca "EJECT" | 4822 403 70968 |
| 106 | Correia grande | 4822 358 31225 |
| 107 | Correia pequena | 4822 358 31124 |
| 110 | Chave "LEAF" | 4822 278 90663 |
| 111 | Cabeça REC/PL | 4822 249 30218 |
| 112 | Cabeça Apagadora | 4822 249 40296 |
| 113 | Cabeça REC/PL | 4822 249 30218 |
| 115 | Motor 9V DC <=37 5 | 4822 361 21592 |
| 116 | Polia p/ Motor | 4822 528 81493 |

**Obs** As peças mecânicas, que constam desta lista, são as únicas disponíveis para reposição
Caso não seja possivel reparar o mesmo, substituir o **DECK** motado **(4822 691 10591)**

## LISTA MECANICA DO DECK - AZ1202

| | | |
|---|---|---|
| | DECK montado | 4822 691 10612 |
| 10 | Suporte p/ Rolo Presso | 4822 528 70849 |
| 11 | Rolo Pressor | 4822 528 70695 |
| 74 | Alavanca "EJECT" | 4822 403 70968 |
| 106 | Correia grande | 4822 358 31325 |
| 107 | Correia pequena | 4822 358 31124 |
| 110 | Chave "LEAF" | 4822 278 90721 |
| 111 | Cabeça REC/PL | 4822 249 30218 |
| 112 | Cabeça Apagadora | 4822 249 40306 |
| 115 | Motor 9V DC <=37 5 | 4822 361 21656 |
| 116 | Polia p/ Motor | 4822 528 81497 |

**Obs** . As peças mecânicas, que constam desta lista, são as únicas disponíveis para reposição
Caso não seja possivel reparar o mesmo, substituir o **DECK** motado **(4822 691 10612)**

# LISTA ELETRICA - AZ1602

### DIVERSOS

| | | |
|---|---|---|
| 454 | CDM - CD94V5T1 | 4822 691 10587 |
| 1000 | Soquete de Rede | 4822 265 20318 |
| 1007 | Falante 4W | 4822 240 10094 |
| 1008 | Transformador de Rede 110/220V | 4822 146 10794 |
| 1010 | Chave - WS-12J01-G(C)7 | 4822 277 21794 |
| 1101 | Chave "FM - AM " | 4822 277 21698 |
| 1257 | Soquete p/ Fone de ouvido | 4822 267 31468 |
| 1302 | Fusível 2A | 4822 070 32002 |
| 1400 | Chave " CD / RADIO / TAPE " | 4822 277 30689 |
| 1401 | DISPLAY, LCD LE-0218A | 4822 135 00124 |
| 1410 | Chave de Tato (1P 20MA 15) | 4822 276 13114 |
| 1503 | Chave "DBB ON / DBB OFF " | 4822 276 12648 |
| 1800 | Chave p/ porta CD | 4822 276 13625 |
| 2106 | **VARIAVEL DE SINTONIA** | 4822 125 50681 |
| 1802 | Conector de 15 PINOS (painel CD97) | 4822 265 10925 |
| 8000 | Conector, ELEC ( 15 Pinos) | 4822 265 10926 |

### CAPACITORES

| | | |
|---|---|---|
| 2103 | 10µF / 63V | 4822 124 40248 |
| 2106 | **VARIAVEL DE SINTONIA** | 4822 125 50681 |
| 2112 | 47µF / 25V | 4822 124 41397 |
| 2113 | 0 22µF / 50V | 4822 126 13581 |
| 2115 | 4,7µF / 63V | 4822 124 40246 |
| 2117 | 1µF / 63V | 4822 124 40242 |
| 2121 | 0,47µF / 63V | 4822 124 40239 |
| 2254 | 47µF / 25V | 4822 124 11958 |
| 2256 | 100µF / 10V | 4822 124 11959 |
| 2262 | 220µF / 25V | 4822 124 80144 |
| 2263 | 470µF / 16V | 4822 124 80558 |
| 2304 | FILM 100NF 5% 63V | 5322 121 42386 |
| 2305 | 4700µF 16V | 4822 124 11878 |
| 2306 | CERA 22NF+80-20% Y5V 25V | 4822 126 11585 |
| 2307 | 220µF / 10V | 4822 124 11972 |
| 2310 | 2,2µF / 50V | 4822 124 41576 |
| 2312 | 100µF / 10V | 4822 124 11959 |
| 2403 | 22µF / 50V | 4822 124 41596 |
| 2808 | 220µF / 25V | 4822 124 22263 |
| 2816 | 0,47µF / 63V | 4822 124 41407 |
| 2820 | 0,22µF / 63V | 4822 124 40746 |
| 2821 | 10µF / 50V | 4822 124 41579 |
| 2823 | 4,7µF / 63V | 4822 124 40246 |
| 2824 | 0,47µF / 63V | 4822 124 41407 |
| 2826 | 0,47µF / 63V | 4822 124 41407 |
| 2827 | 47µF / 16V | 4822 124 23178 |
| 2828 | 10µF / 50V | 4822 124 41579 |
| 2832 | 2,2µF / 50V | 4822 124 41576 |
| 2833 | 47µF / 25V | 4822 124 40433 |
| 2836 | 470µF / 16V | 4822 124 80558 |
| 2842 | 330µF / 16V | 4822 124 40849 |
| 2860 | 47µF / 16V | 4822 124 23178 |

### RESISTORES

| | | |
|---|---|---|
| 3101 | Potenciômetro 50K 0,1W | 4822 100 20167 |
| 3109 | 100K / 0,5W | 4822 116 52234 |
| 3401 | 15K / 0,5W | 4822 116 52244 |
| 3484 | 27K / 0,5W | 4822 116 52264 |
| 3522 | Potenciômetro 50KBX2 | 4822 102 10447 |
| 3704 | 2K7 / 0,5W | 4822 116 52263 |
| 3709 | 22R / 0,5W | 4822 116 52186 |
| 3758 | 500R / 0,1W | 4822 100 20165 |
| 3801 | 4R7 / 0,33W | 4822 052 10478 |
| 3822 | 27K / 0,16W | 4822 116 52264 |

### BOBINAS

| | | |
|---|---|---|
| 50XX | FERRITE BEAD | 4822 526 10494 |
| 5060 | 100µH | 4822 157 50964 |
| 5101 | FM-RF | 4822 157 53789 |
| 5104 | FM-OSC | 4822 156 30947 |
| 5105 | 270µH | 4822 157 71145 |
| 5106 | AM-IF FILTRO, 468KHZ | 4822 157 70499 |
| 5107 | FILTRO CER KMFC5058-Z | 4822 242 81154 |
| 5108 | AM-IF FILTRO, 468KHZ | 4822 156 11146 |
| 5111 | F7BRS-12645X | 4822 156 21738 |
| 5401 | FILTRO CER CST4,19MGW | 4822 242 73769 |
| 5402 | IND FXD LAL02 A | 4822 156 21721 |
| 5403 | 100µH | 4822 157 52333 |
| 5503 | 1µH 20% 4X9,8 | 4822 157 51195 |
| 5803 | FILTRO CER CST8,46MTW-TF01 | 4806 242 77095 |

### DIODOS

| | | |
|---|---|---|
| 6001 | 1N4148 | 4806 130 37078 |
| 6300 | 1N4002 | 5322 130 30684 |
| 6304 | BZX79-F3V3 | 4822 130 32806 |
| 6404 | BZX79-B4V3 | 4822 130 31554 |

### TRANSISTORES

| | | |
|---|---|---|
| 7250 | BC557C | 4806 130 47047 |
| 7251 | BC327-40 | 4806 130 47153 |
| 7252 | BC547C | 4806 130 47417 |
| 7804 | BC558C | 4806 130 47050 |
| 7400 | BC338-40 | 4806 130 47031 |

### I C 's

| | | |
|---|---|---|
| 7101 | TEA5711T/N2 | 4806 209 87628 |
| 7300 | TA8227P | 4822 209 31544 |
| 7401 | TMP47C422F-AZ1602 1 | 4822 209 15568 |
| 7801 | M65821FP | 4822 209 13703 |
| 7802 | TDA1311A/N2 | 4822 209 32421 |
| 7803 | M62475FP | 4822 209 90496 |
| 7805 | TDA7073A/N2 | 4806 209 87707 |
| 7806 | TDA7073A/N2 | 4806 209 87707 |

**Obs.: I** - As peças que não constam desta lista, não são disponíveis para reposição

**II** - Para peças como CAPACITORES e RESISTORES, utilizar as de uso normal em nosso estoque

# LISTA ELETRICA - AZ1202

### DIVERSOS

| | | |
|---|---|---|
| 454 | CDM - CD94V5T1 | 4822 691 10587 |
| 1000 | Soquete de Rede | 4822 265 20318 |
| 1006 | Falante 4W (1,6W) | 4822 240 10248 |
| 1007 | Falante 4W (1,6W) | 4822 240 10248 |
| | Piezzo (PT25R0101M) | 4822 280 10336 |
| 1008 | Transformador de Rede 110/220V | 4822 146 10821 |
| 1101 | Chave "FM - AM " | 4822 277 21698 |
| 1257 | Soquete p/ Fone de ouvido | 4822 267 31468 |
| 1301 | Seletor de Voltagem | 4822 277 21794 |
| 1302 | Fusível 2A | 4822 070 32002 |
| 1400 | Chave " CD / RADIO / TAPE " | 4822 277 30689 |
| 1401 | DISPLAY, LCD LE-0218A | 4822 135 00124 |
| 14 | Chave de Tato (1P 20MA 15) | 4806 276 27052 |
| 1503 | Chave "DBB ON / DBB OFF " | 4822 276 12648 |
| 1507 | Chave p/ (2polos/2pos ) | 4822 277 21698 |
| 1640 | Chave p/ RSD-62D01N-TA | 4822 277 11504 |
| 1800 | Chave p/ porta CD | 4822 276 13625 |
| 1802 | Conector de 15 PINOS (painél CD97) | 4822 265 10925 |
| 2106 | **VARIAVEL DE SINTONIA** | 4822 125 50681 |
| 8000 | Conector, ELEC ( 15 Pinos) | 4822 265 10926 |

### CAPACITORES

| | | |
|---|---|---|
| 2106 | **VARIAVEL DE SINTONIA** | 4822 125 50681 |
| | 0 22µF / 50V | 4822 126 13581 |
| | 0,22µF / 63V | 4822 124 40746 |
| | 0,47µF / 63V | 4822 124 41407 |
| | 0,47µF / 63V | 4822 124 40239 |
| | 1µF / 63V | 4822 124 40242 |
| | 2,2µF / 50V | 4822 124 41576 |
| | 4,7µF / 63V | 4822 124 40246 |
| | 10µF / 50V | 4822 124 41579 |
| | 10µF / 63V | 4822 124 40248 |
| | 22µF / 50V | 4822 124 41596 |
| | 47µF / 16V | 4822 124 23178 |
| | 47µF / 25V | 4822 124 40433 |
| | 47µF / 25V | 4822 124 41397 |
| | 47µF / 25V | 4822 124 11958 |
| | 100µF / 10V | 4822 124 11959 |
| | 220µF / 10V | 4822 124 11972 |
| | 220µF / 25V | 4822 124 80144 |
| | 220µF / 25V | 4822 124 22263 |
| | 330µF / 16V | 4822 124 40849 |
| | 470µF / 16V | 4822 124 80558 |
| | 470µF / 16V | 4822 124 80791 |
| | 4700µF 25V | 4822 124 12012 |
| | Cerâmico 22NF+80-20% Y5V 25V | 4822 126 11585 |
| | FILM 100NF 63V | 5322 121 42386 |

### RESISTORES

| | | |
|---|---|---|
| 3101 | Potenciômetro 50K LIN 0,1W | 4822 100 20167 |
| 3522 | Pot de VOLUME 50KBX2 | 4822 102 10447 |
| | 4R7 / 0,33W | 4822 052 10478 |
| | 22R / 0,5W | 4822 116 52186 |
| | 500R / 0,1W | 4822 100 20165 |
| | 2K7 / 0,5W | 4822 116 52263 |
| | 15K / 0,5W | 4822 116 52244 |
| | 27K / 0,16W | 4822 116 52264 |
| | 27K / 0,5W | 4822 116 52264 |
| | 100K / 0,5W | 4822 116 52234 |

### BOBINAS

| | | |
|---|---|---|
| 5000 | FERRITE BEAD | 4822 526 10494 |
| 5010 | FERRITE BEAD | 4822 526 10494 |
| 5020 | FERRITE BEAD | 4822 526 10494 |
| 5030 | FERRITE BEAD | 4822 526 10494 |
| 5040 | FERRITE BEAD | 4822 526 10494 |
| 5050 | FERRITE BEAD | 4822 526 10494 |
| 5060 | 100µH | 4822 157 50964 |
| 5101 | FM-RF | 4822 157 53789 |
| 5104 | FM-OSC | 4822 156 30947 |
| 5105 | 270µH | 4822 157 71145 |
| 5106 | AM-IF FILTER, 468KHZ | 4822 157 70499 |
| 5107 | FILTRO CER KMFC5058-Z | 4822 242 81154 |
| 5108 | AM-IF FILTRO, 468KHZ | 4822 156 11146 |
| 5111 | F7BRS-12645X | 4822 156 21738 |
| 5401 | FILTR CER CST4,19MGW | 4822 242 73769 |
| 5402 | IND FXD LAL02 A | 4822 156 21721 |
| 5403 | 100µH | 4822 157 52333 |
| 5503 | 1µH 20% 4X9,8 | 4822 157 51195 |
| 5630 | Bobina 100KHz | 4822 156 20946 |
| 5803 | FILTRO CER CST8,46MTW-TF01 | 4806 242 77095 |

### DIODOS

| | | |
|---|---|---|
| 6001 | 1N4148 | 4806 130 37078 |
| 6300 | 1N4003G | 4822 130 31878 |
| 6304 | BZX79-F3V3 | 4822 130 32806 |
| 6404 | BZX79-B4V3 | 4822 130 31554 |

### TRANSISTORES

| | | |
|---|---|---|
| | BC327-40 | 4806 130 47153 |
| | BC338-40 | 4806 130 47031 |
| | BC547C | 4806 130 47417 |
| | BC557C | 4806 130 47047 |
| | BC558C | 4806 130 47050 |

### I.C.'s

| | | |
|---|---|---|
| 7101 | TEA5711T/N2 | 4806 209 87628 |
| 7300 | TA8227P | 4822 209 31544 |
| 7401 | TMP47C422F-AZ1602 1 | 4822 209 15568 |
| 7550 | LM 324 DTR | 4822 209 63709 |
| 7700 | AN 7318 S | 4806 209 87683 |
| 7801 | M65821FP | 4822 209 13703 |
| 7802 | TDA1311A/N2 | 4822 209 32421 |
| 7803 | M62475FP | 4822 209 90496 |
| 7805 | TDA7073A/N2 | 4806 209 87707 |
| 7806 | TDA7073A/N2 | 4806 209 87707 |

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